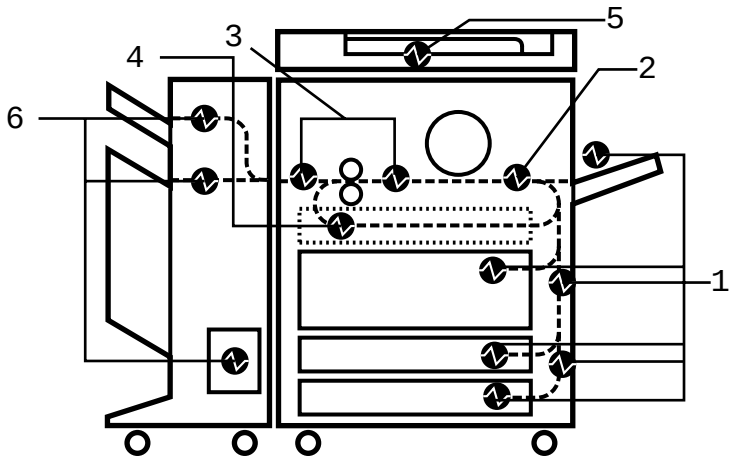
2-2-1 Paper misfeed detection

When a paper misfeed occurs, the copier immediately stops copying and displays a message announcing the paper misfeed on the operation unit touch panel, indicating the location of the misfeed and shows how to remove the misfed paper. Paper misfeed counts sorted by the detection conditions can be checked by misfeed code in simulation 74.
To remove paper misfed in the copier, open the cassette, paper feed cover or front cover.
When paper is misfed in the RDH, open the RDH cover or the RDH eject cover to remove the misfed paper.
To clear a misfeed in the feedshift and duplex sections, open the eject cover or draw duplex unit.
To reset the paper misfeed detection, open and close the front, eject or paper feed cover to turn each safety switch off and on. To reset the paper misfeed detection, open and close the RDH cover, RDH reverse cover or RDH eject cover to turn each safety switch off and on. The detection of misfeeds in the feedshift and duplex sections can be reset by reinserting the duplex unit or opening and closing the eject cover to turn the eject cover safety switch off and on.



1 Paper feed section
2 Paper conveying section
3 Fixing and eject section
4 Feedshift and duplex sections (duplex unit)
5 RDH
6 Sorter

Figure 2-2-1 Misfeed location indication

2-2-2 Paper misfeed detection conditions

(1) Paper feed, conveying, fixing and eject sections

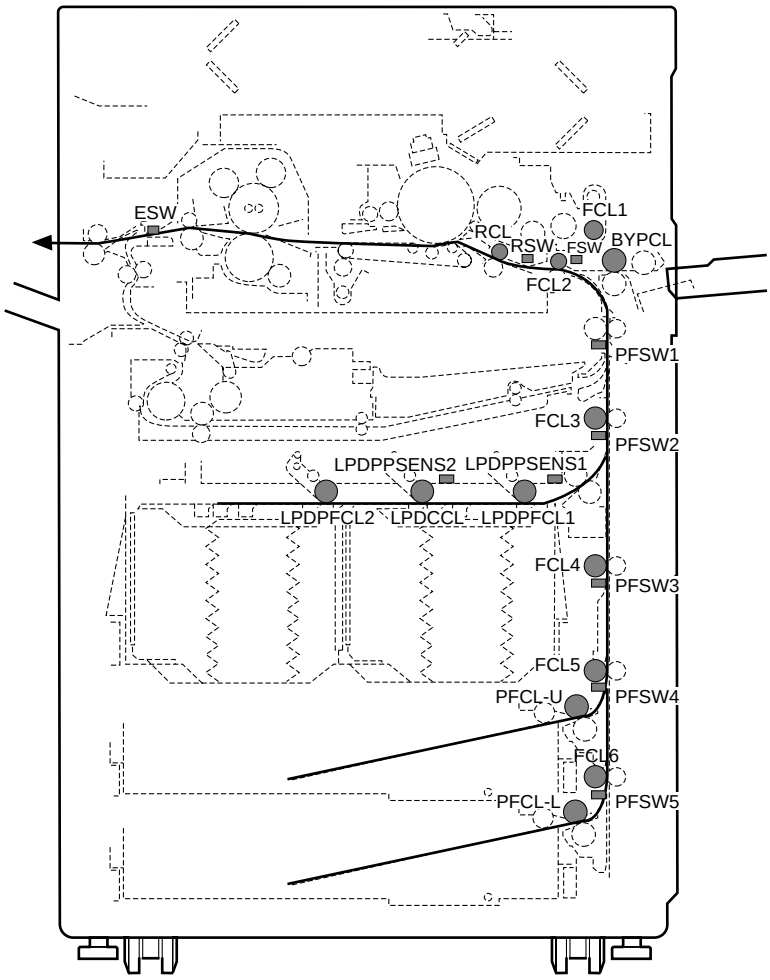
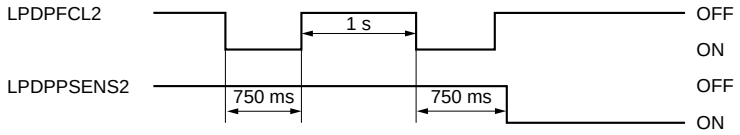


Figure 2-2-2 Paper feed, conveying, fixing and eject sections

1. Paper feed section

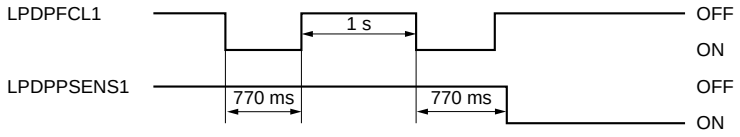
• No paper feed from large paper deck (Jam code 11)

The large paper deck paper path sensor 2 (LPDPPSENS2) does not turn on within 750 ms after the large paper deck clutch 2 (LPDPFCL2) has turned on; the clutch is then held off for 1 s and turned back on, but the switch again fails to turn on within 750 ms after the retry.



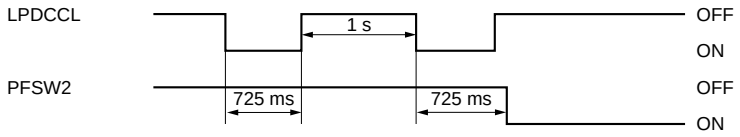
Timing chart 2-2-1

The large paper deck paper path sensor 1 (LPDPPSENS1) does not turn on within 770 ms after the large paper deck clutch 1 (LPDPFCL1) has turned on; the clutch is then held off for 1 s and turned back on, but the switch again fails to turn on within 770 ms after the retry.



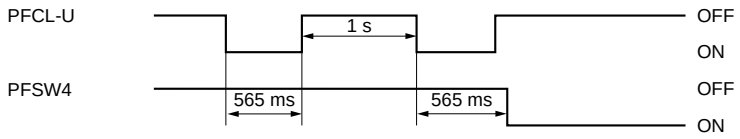
Timing chart 2-2-2

The paper feed switch 2 (PFSW2) does not turn on within 725 ms after the large paper deck conveying clutch (LPDCCL) has turned on; the clutch is then held off for 1 s and turned back on, but the switch again fails to turn on within 725 ms after the retry.



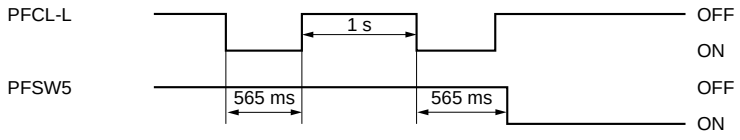
Timing chart 2-2-3

• No paper feed from upper cassette (Jam code 13)
The paper feed switch 4 (PFSW4) does not turn on within 565 ms after the upper paper feed clutch (PFCL-U) has turned on; the clutch is then held off for 1 s and turned back on, but the switch again fails to turn on within 565 ms after the retry.



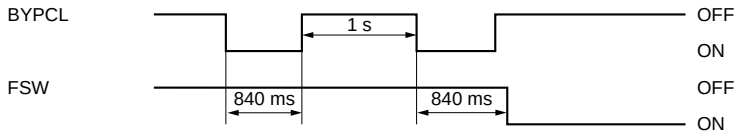
Timing chart 2-2-4

• No paper feed from lower cassette (Jam code 14)
The paper feed switch 5 (PFSW5) does not turn on within 565 ms after the lower paper feed clutch (PFCL-L) has turned on; the clutch is then held off for 1 s and turned back on, but the switch again fails to turn on within 565 ms after the retry.



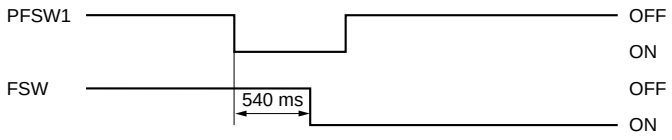
Timing chart 2-2-5

• No paper feed from bypass (Jam code 15)
The feed switch (FSW) does not turn on within 840 ms after the bypass clutch (BYPCL) has turned on; the clutch is then held off for 1 s and turned back on, but the switch again fails to turn on within 840 ms after the retry.



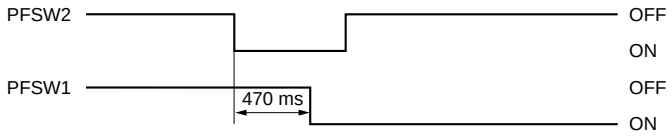
Timing chart 2-2-6

• Misfeed in copier vertical paper conveying section (Jam code 17)
The feed switch (FSW) does not turn on within 540 ms after the paper feed switch 1 (PFSW1) has turned on.



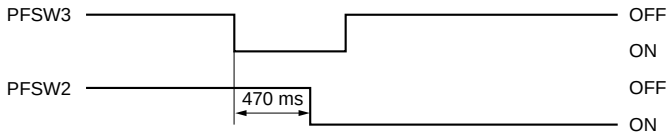
Timing chart 2-2-7

The paper feed switch 1 (PFSW1) does not turn on within 470 ms after the paper feed switch 2 (PFSW2) has turned on.



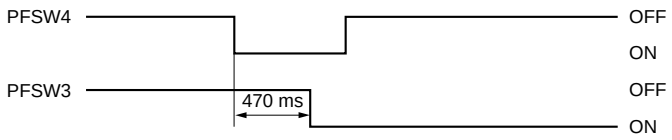
Timing chart 2-2-8

The paper feed switch 2 (PFSW2) does not turn on within 470 ms after the paper feed switch 3 (PFSW3) has turned on.



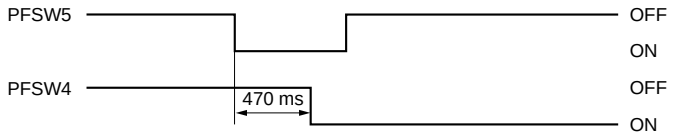
Timing chart 2-2-9

The paper feed switch 3 (PFSW3) does not turn on within 470 ms after the paper feed switch 4 (PFSW4) has turned on.



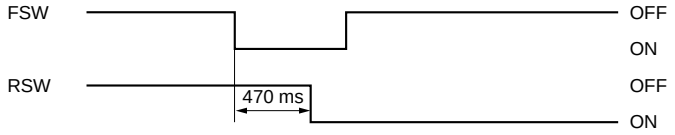
Timing chart 2-2-10

• Misfeed in desk vertical paper conveying section (Jam code 18)
The paper feed switch 4 (PFSW4) does not turn on within 470 ms after the paper feed switch 5 (PFSW5) has turned on.



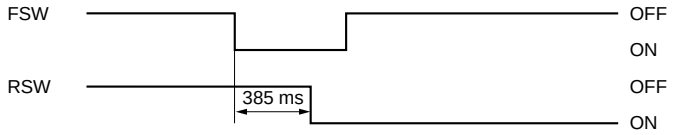
Timing chart 2-2-11

• Misfeed in converging section (Jam code 23)
The registration switch (RSW) does not turn on within 470 ms after the feed switch (FSW) has turned on during bypass paper feed.



Timing chart 2-2-12

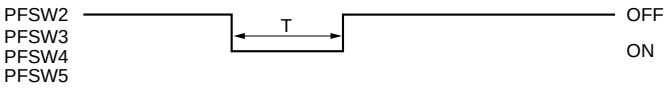
The registration switch (RSW) does not turn on within 385 ms after the feed switch (FSW) has turned on during paper feed from a source other than the bypass.



Timing chart 2-2-13

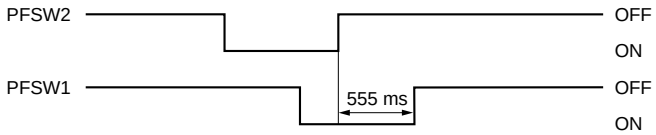
• Multiple sheets in paper feed section (jam code 24)
The paper feed switch 2 (PFSW2), paper feed switch 3 (PFSW3), paper feed switch 4 (PFSW4), paper feed switch 5 (PFSW5) do not turn off after a lapse of the specified time (T) (see to table) after they have turned on.

Switch	Specified time (T)
PFSW2	1355 ms
PFSW3	1355 ms
PFSW4	1355 ms
PFSW5	1355 ms



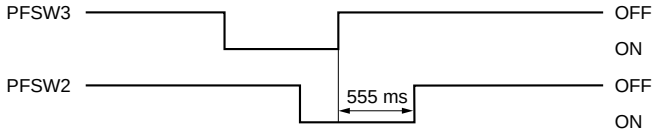
Timing chart 2-2-14

• Multiple sheets in copier vertical conveying section (jam code 25)
The paper feed switch 1 (PFSW1) does not turn off within 555 ms after the paper feed switch 2 (PFSW2) has turned off.



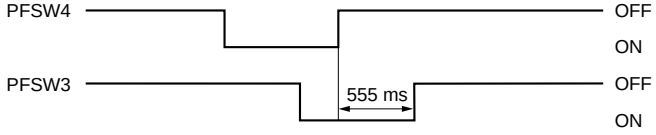
Timing chart 2-2-15

The paper feed switch 2 (PFSW2) does not turn off within 555 ms after the paper feed switch 3 (PFSW3) has turned off.



Timing chart 2-2-16

The paper feed switch 3 (PFSW3) does not turn off within 555 ms after the paper feed switch 4 (PFSW4) has turned off.



Timing chart 2-2-17

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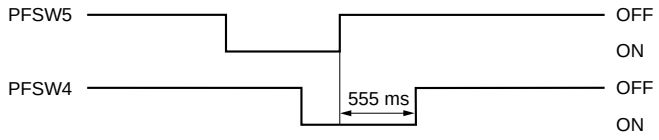
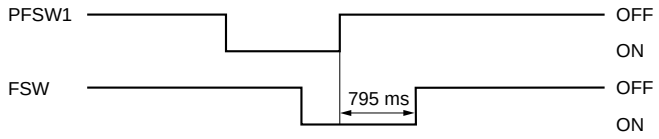
The paper feed switch 4 (PFSW4) does not turn off within 555 ms after the paper feed switch 5 (PFSW5) has turned off.



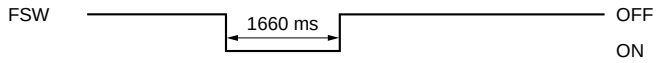
Timing chart 2-2-18

• Multiple sheets before registration section (jam code 27)
The feed switch (FSW) does not turn off within 795 ms after the paper feed switch 1 (PFSW1) has turned off.



Timing chart 2-2-19

The feed switch (FSW) does not turn off within 1660 ms after it has turned on during bypass paper feed.

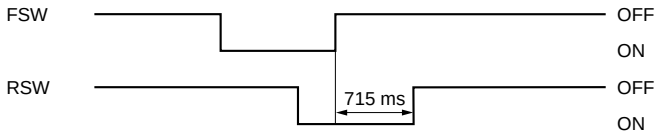


Timing chart 2-2-20

2. Paper conveying section

• Misfeed in registration/transfer section (jam code 30)

The registration switch (RSW) does not turn off within 715 ms after the feed switch (FSW) has turned off.

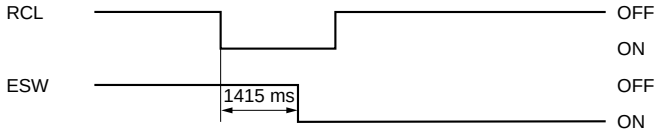


Timing chart 2-2-21

3. Fixing section

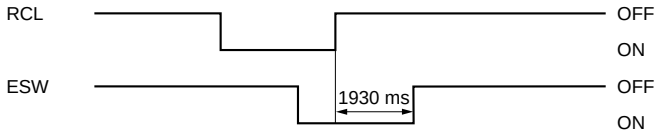
• Misfeed in fixing section (jam code 40)

The eject switch (ESW) does not turn on within 1415 ms after the registration clutch (RCL) has turned on.



Timing chart 2-2-22

The eject switch (ESW) does not turn off within 1930 ms after the registration clutch (RCL) has turned off.



Timing chart 2-2-23

(2) Feedshift and duplex sections

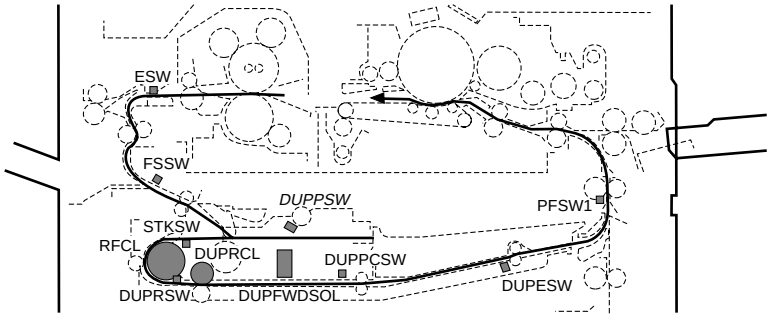
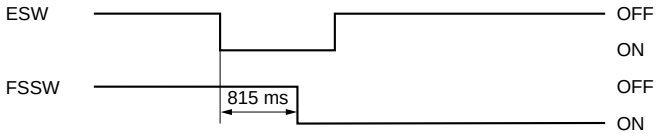


Figure 2-2-3 Feedshift and duplex sections

1. Feedshift section

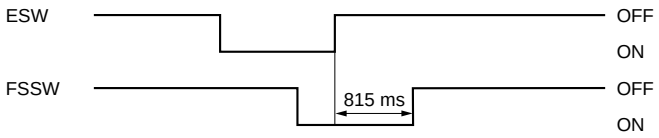
• Misfeed in feedshift section (jam code 51)

The feedshift switch (FSSW) does not turn on within 815ms after the eject switch (ESW) has turned on.



Timing chart 2-2-24

The feedshift switch (FSSW) does not turn off within 815 ms after the eject switch (ESW) has turned off.

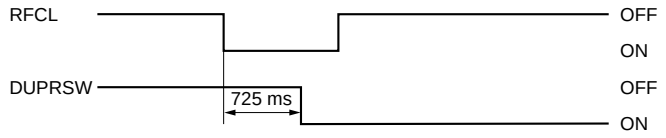


Timing chart 2-2-25

2. Duplex section

• No paper feed from duplex unit (jam code 16)

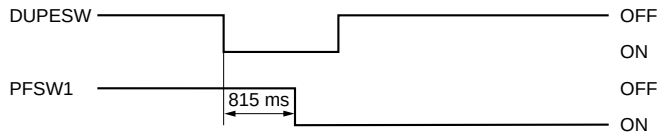
The duplex registration switch (DUPRSW) does not turn on within 725 ms after the refeed clutch (RFCL) has turned on.



Timing chart 2-2-26

• Misfeed in copier vertical paper conveying section (jam code 17)

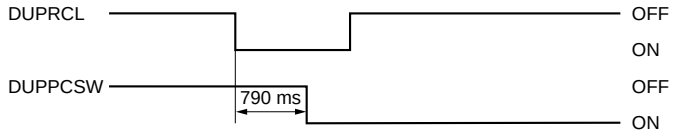
The paper feed switch 1 (PFSW1) does not turn on within 815 ms after the duplex eject switch (DUPESW) has turned on.



Timing chart 2-2-27

• Misfeed in duplex conveying section (jam code 19)

The duplex paper conveying switch (DUPPCSW) does not turn on within 790 ms after the duplex registration clutch (DUPRCL) has turned on.



Timing chart 2-2-28

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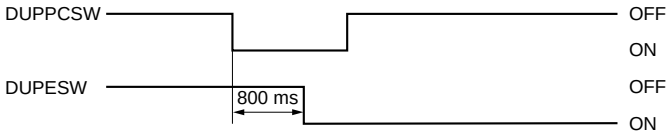
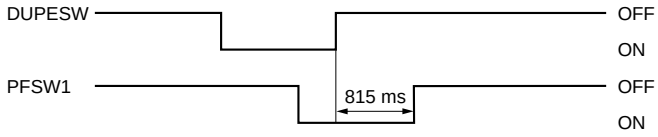
The duplex eject switch (DUPESW) does not turn on within 800 ms after the duplex paper conveying switch (DUPPCSW) has turned on.



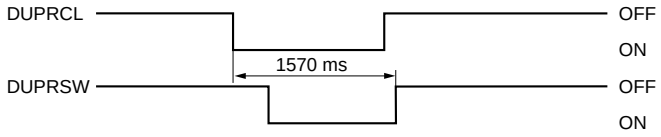
Timing chart 2-2-29

• Multiple sheets in copier vertical conveying section (jam code 25)
The paper feed switch 1 (PFSW1) does not turn off within 815 ms after the duplex eject switch (DUPESW) has turned off.



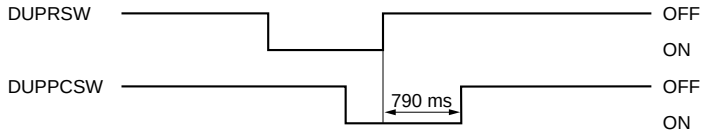
Timing chart 2-2-30

• Multiple sheets in duplex section (jam code 26)
The duplex registration switch (DUPRSW) does not turn off within 1570 ms after the duplex registration clutch (DUPRCL) has turned on.



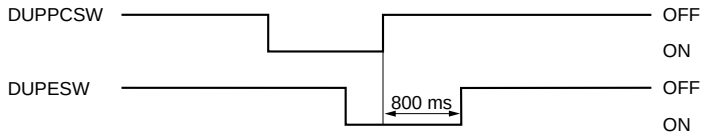
Timing chart 2-2-31

The duplex paper conveying switch (DUPPCSW) does not turn off within 790 ms after the duplex registration switch (DUPRSW) has turned off.



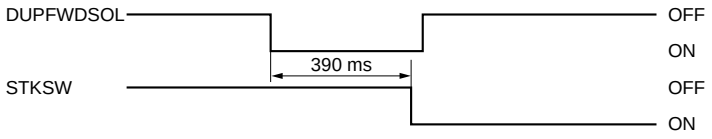
Timing chart 2-2-32

The duplex eject switch (DUPESW) does not turn off within 800 ms after the duplex paper conveying switch (DUPPCSW) has turned off.



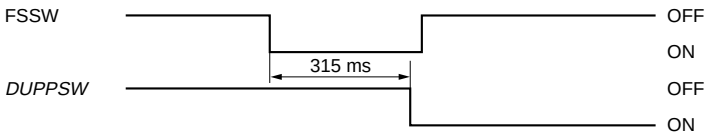
Timing chart 2-2-33

• Misfeed in duplex unit (jam code 60)
The stock switch (STKSW) does not turn on within 390 ms after the duplex forwarding solenoid (DUPFWDSOL) has turned on when the first sheet is stocked in the duplex unit.



Timing chart 2-2-34

The duplex paper switch (DUPPSW) does not turn on within 315 ms after the feedshift switch (FSSW) has turned on.



Timing chart 2-2-35

(3) RDH paper feed, RDH conveying, and RDH eject sections

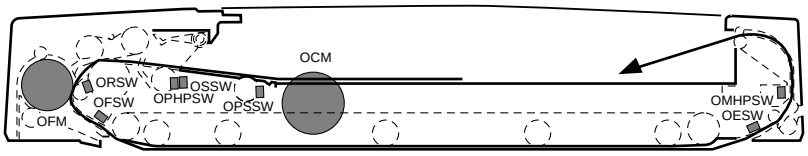
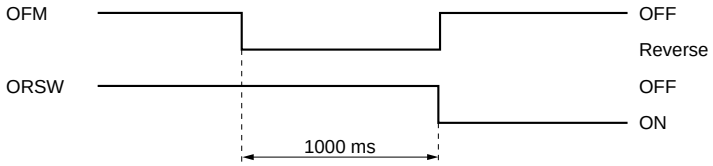


Figure 2-2-4 RDH paper feed, RDH conveying, and RDH eject sections

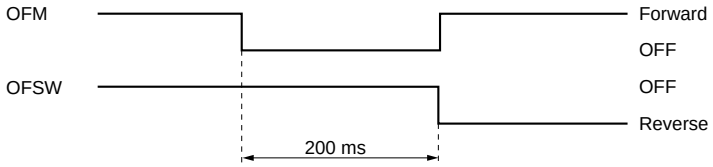
1. Misfeed in RDH paper feed section

The original registration switch (ORSW) does not turn on within 1000 ms after the original feed motor (OFM) has turned on in reverse during the primary paper feed.



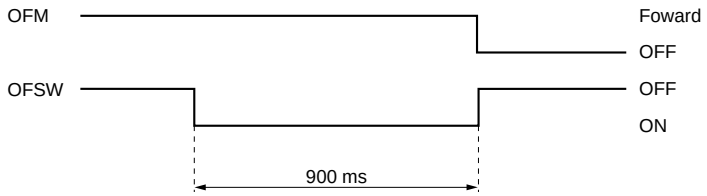
Timing chart 2-2-36

The original feed switch (OFSW) does not turn on within 200 ms after the original feed motor (OFM) has turned on in forward during the secondary paper feed.



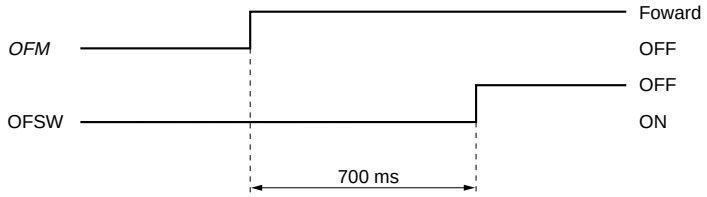
Timing chart 2-2-37

The original feed switch (OFSW) does not turn off within 900 ms after it (OFSW) has turned on during the secondary paper feed.



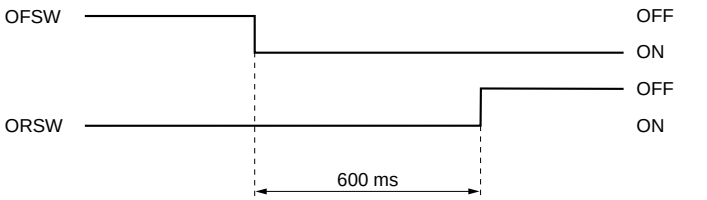
Timing chart 2-2-38

The original feed switch (OFSW) does not turn off within 700 ms after the original feed motor (OFM) has turned on in forward during original reversing.



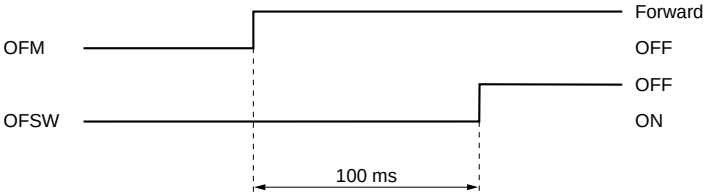
Timing chart 2-2-39

The original registration switch (ORSW) does not turn off within 600 ms after the original feed switch (OFSW) has turned on by the first original during the 2 in 1 mode.



Timing chart 2-2-40

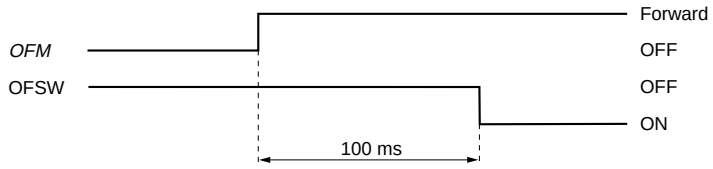
The original feed switch (OFSW) does not turn off by the trail edge of the first original within 100 ms after the original feed motor (OFM) has turned on in forward when the secondary paper feed of the second original during the 2 in 1 mode.



Timing chart 2-2-41

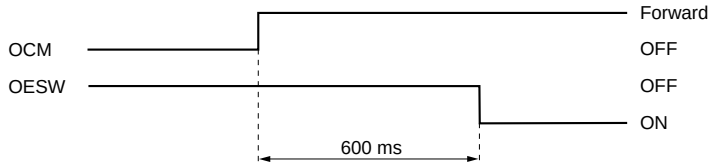
2. Misfeed in RDH conveying section

The original feed switch (OFSW) does not turn on within 100 ms after the original feed motor (OFM) has turned on in forward during original reversing.



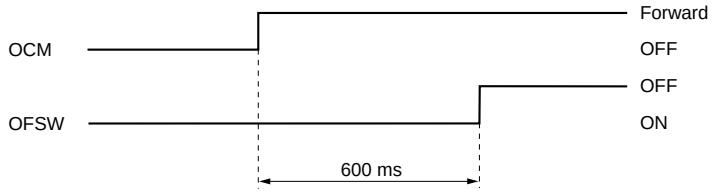
Timing chart 2-2-42

The original eject switch (OESW) does not turn on within 600 ms after the original conveying motor (OCM) has turned on in forward during original changing.



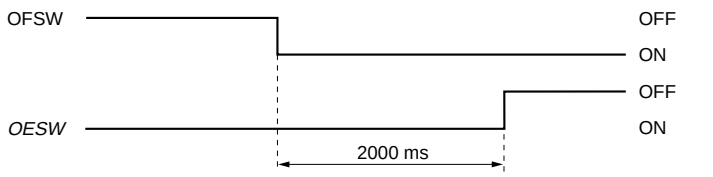
Timing chart 2-2-43

The original feed switch (OFSW) does not turn off within 600 ms after the original conveying motor (OCM) has turned on in forward during the auto selection mode.



Timing chart 2-2-44

The original eject switch (OESW) does not turn off within 2000 ms after the original feed switch (OFSW) has turned on during the auto selection mode.

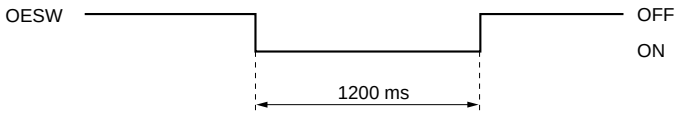


Timing chart 2-2-45

3. Misfeed in RDH eject section

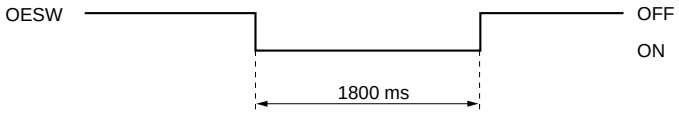
• RDH ejection (jam code 74)

The original eject switch (OESW) does not turn off within 1200 ms after the original eject switch (OESW) has turned on during original ejection.



Timing chart 2-2-46

The original eject switch (OESW) does not turn off within 1800 ms after the original eject switch (OESW) has turned on during the auto selection mode.



Timing chart 2-2-47

4. Others

- When “DF START” signal is received, switch and sensor are on other than the original set switch (OSSW), original preset switch (OPSSW), original partition home position switch (OPHPSW), original moving home position switch (OMHPSW).

- During RDH operation, any safety switch has turned off.

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(4) Sorter (See the sorter service manual)

- Misfeed between copier and sorter (jam code 80)
- Misfeed in sorter entrance (jam code 81)
- Misfeed in conveying section for non-sort bin (jam code 82)
- Misfeed in eject section for non-sort bin (jam code 83)
- Misfeed in conveying section for sort bin (jam code 84)
- Misfeed in eject section for sort bin (jam code 85)
- Misfeed in post-sorting section (jam code 90)
- Misfeed in stacker hand section (jam code 91)
- Misfeed in conveying section (jam code 92)
- Misfeed in eject section (jam code 93)