F13-01	Error detection signal is detected continuously for one second when two seconds have passed since M1 (paper feed) has turned ON.
F13-02	Error detection signal is detected continuously for one second when two seconds have passed since M101 (LT paper feed) has turned ON.
F18-10	Error detection signal for M16 (tray up drive /1) is detected while M16 is turned ON.
F18-11	PS2 (tray upper limit/1) does not turn ON within 20 seconds since the lifting motion triggered by activating M16 (tray up drive /1) has started while PS2 is turned OFF.
F18-20	Error detection signal for M17 (tray up drive /2) is detected while M17 is turned ON.
F18-21	PS8 (tray upper limit/2) does not turn ON within 20 seconds since the lifting motion triggered by activating M17 (tray up drive /2) has started while PS8 is turned OFF.
F18-30	Error detection signal for M18 (tray up drive /3) is detected while M18 is turned ON.
F18-31	PS14 (tray upper limit/3) does not turn ON within 20 seconds since the lifting motion triggered by activating M18 (tray up drive /3) has started while PS14 is turned OFF.
F18-50	Error detection signal for M100 (LT up/down) is detected continuously for one second while M100 is turned ON.
F18-51	PS109 (LT upper limit detection) or PS101 (LT lower limit detection) does not turn ON within 35 seconds since the lifting or descent motion triggered by activating M100 (LT up/down) has started while PS109 or PS101 is turned OFF.
F18-60	PS34 (tray upper limit/BP) or PS35 (tray lower limit/BP) does not turn ON within 10 seconds since the upward or downward motion triggered by activating M20 (up/down/BP) has started while PS34 or PS35 is turned OFF.
F21-01	The lock signal for M14 (charger cleaning) is not detected when more than 25 seconds have passed since the return motion (back to front) of M14 has started.
F21-02	The lock signal for M14 (charger cleaning) is detected within 2 sec-onds since the return motion (back to front) of M14 has started.
F21-03	The lock signal for M14 (charger cleaning) is not detected when more than 25 seconds have passed since the return motion (back to front) of M14 has started while re-try process is in motion after lock detection.
F21-05	The lock signal for M10(transfer/sep-aration cleaning) is not detected when more than 25 seconds have passed since the return motion (back to front) of M10 has started.
F21-06	The lock signal for M10 (transfer/sep-aration cleaning) is detected within 2 seconds since the return motion (back to front) of M10 has started.
F21-07	The lock signal for M10 (transfer/sep-aration cleaning) is not detected when more than 25 seconds have passed since the return motion (back to front) of M10 has started while re-try process is in motion after lock detection.
F22-01	An error for SFAN_EM signal is detected when 2 seconds have passed since FM4 (developing suc-tion) has turned ON. The error does not clear after 2 seconds from the OFF/ON operation.
F22-02	An error for CLEAN_EM signal is detected when 2 seconds have passed since FM5 (cleaner cooling) has turned ON. The error does not clear after 2 seconds from the OFF/ ON operation.
F23-01	An error for TONERM_EM signal is detected when 7 seconds have passed since M13 (toner bottle) has turned ON.
F23-02	An error for DEVM_EM signal is detected when more than 1 second has passed since M3 (developing) has turned ON.
F23-03	An error for DRUM_EM signal is detected when more than 3 seconds have passed since M2 (drum) has turned ON.

F28-01	5 consecutive charging ON/OFF operations have been executed since the charging error detection signal has been detected while charging is turned ON.
F28-02	5 consecutive transfer ON/OFF oper-ations have been executed since the transfer error detection signal has been detected while transfer is turned ON.
F28-03	5 consecutive separation ON/OFF operations have been executed since the separation error detection signal has been detected while separation is turned ON.
F29-01	Dirt correction failure of the Dmax sensor during maximum density adjustment. If this error is detected 10 successive times, the error code is displayed.
F29-03	Control patches are not output while Dmax correction is in process. (No output from the Dmax sensor.)
F29-04	Dirt correction failure of the γsensor during γadjustment. If this error is detected 10 successive times, the error code is displayed.
F29-05	Control patches are not output while γcorrection is in process. (No output from the γsensor.)
F29-06	A recurrence error occurred when carry out γcurve for γcorrection.
F29-07	Dirt correction failure of the γsensor during dot diameter adjustment. If this error is detected 10 successive times, the corresponding error code is displayed.
F29-08	The dot diameter correction ended with error value.
F32-01	An error for SUC_EM signal is detected when 2 seconds have passed since FM3 (conveyance suc-tion) has turned ON. The error does not clear after 2 seconds from the OFF/ON operation.
F32-02	An error for FIXFAN1_EM signal is detected when 2 seconds have passed since FM8 (main unit cooling /2) has turned ON. The error does not clear after 2 seconds from the OFF/ ON operation.
F32-03	An error for FIXFAN2_EM signal is detected when 2 seconds have passed since FM7 (paper exit /R) has turned ON. The error does not clear after 2 seconds from the OFF/ON operation.
F32-04	An error for FIXFAN3_EM signal is detected when 2 seconds have passed since FM6 (paper exit /F) has turned ON. The error does not clear after 2 seconds from the OFF/ON operation.
F33-01	Error detection signal is detected continuously for 1 second when 2 seconds have passed since M5 (con-veyance) has turned ON.
F34-01	TH1 (fixing temperature /1) detects more than 220℃ for five consecutive times in 1 second cycle.
F34-02	The output voltage of TH1 (fixing temperature /1) and TH2 (fixing tem-perature /2) is detected as abnor-mally high at the comparator circuit (more than 228℃).
F35-01	TH1 (fixing temperature /1) has not reached the predefined temperature when the specified time has passed since the fixing ON control has been processed after SW2 (sub power) is turned on.
F35-02	TH1 (fixing temperature /1) detects less than 120℃ for 5 consecutive times in 1 second cycle while the fix-ing ON control is processed after warm-up operation is complete.
F35-03	The output voltage of TH1 (fixing temperature /1) is detected as abnor-mality low at the comparator circuit (less than -6℃).
F36-01	TH1 (fixing temperature /1) has not reached 50℃ when the specified time has passed since the fixing ON control has been processed after SW2 (sub power) is turned on.
F36-02	The output voltage of TH2 (fixing temperature /2) is detected as abnor-mality low (less than -6℃) or abnor-mally high (more than 240.5℃) at the comparator circuit.
F41-01	PS61 (scanner HP) does not turn ON within 5 seconds since M11 (scan-ner) has turned ON.

F41-02	The lock signal for M15 (polygon) is not detected within 25 seconds from the switch drive when M15 starts or when switching the rotation speed.
F42-01	An error for EM signal is detected when 2 seconds have passed since FM9 (scanner cooling) has turned ON. The error does not clear after 2 seconds from the OFF/ON operation.
F42-02	An error for WRFAN1_EM signal is detected when 2 seconds have passed since FM2 (write section cooling) has turned ON. The error does not clear after 2 seconds from the OFF/ON operation.
E46-01	During image write, APC cannot be performed for sub-scanning beam correction. The 12 VDC power for driving the laser is not supplied. The laser does not turn ON due to defective laser, or MPC value is dif-ferent. The index sensor cannot detect the laser because the polygon mirror does not rotate, the index sensor is displaced, or the index sensor is defective.
E46-02	Illegal address of FIFO for scanner. During image read, image data com-pression is not completed normally.
E46-03	Illegal address of FIFO for printer. During image read, image data decompression is not completed nor-mally.
E46-05	The FIFO of the compression / expansion chip caused an errorrupt. inter-
E46-06	Decompression error of image data.
E46-08	When APC is performed, the index sensor output does not change.
E46-12	Compression of the read image and decompression in the page memory are not completed within the speci-fied time after negation of SVV.
E46-13	During image read, image data com-pression from the scanner to the memory is not completed within the specified time. Image data decom-pression from the scanner to the page memory is not completed within the specified time. SVV is not detected within the specified time.
E46-14	During image read, image data decompression from the memory to the printer is not completed within the specified time. Image data output from the page memory to the printer is not completed within the specified time. PVV is not detected within the specified time.
E46-15	During image write, improper pro-cessing was performed. For exam-ple, the decompression device was accessed although there was no resource.
E46-16	During image read, improper pro-cessing was performed. For exam-ple, the compression device was accessed although there was no resource.
E46-17	During image processing, a filter coefficient could not be generated properly.
E46-19	During access to the memory device, a software error was detected.
E46-21	Decompression from the memory to the page memory is not completed within the specified time. Compression from the page memory to the memory is not completed within the specified time. Decompression from the memory to the page memory is not completed within the specified time. Compressed data transfer between memories is not completed within the specified time.
E46-23	During image read, SVV is not turned OFF within the specified time and therefore preparation for next page scanning cannot be started.
E46-24	Shading correction error (GA error)
E46-25	AOC/AGC error • The light blocking cover and lens cover are removed from the scanner section. • The A/D converter board connec-tor is disconnected. • The power cable of A/D converter board is disconnected. • The IC protector on the A/D con-verter board is blown out. • The exposure lamp intensity is excessive. • The exposure lamp does not light.
E46-26	Correction data saved on a resolu-tion basis is not found.

E46-27	The density correction γcurve cannot be generated properly.
E46-29	Calibration start error.
E46-30	Calibration end error
E46-31	An attempt was made to perform APC initial sampling before comple-tion of MPC.
E46-32	An attempt was made to perform MPC during APC.
E46-33	An attempt was made to perform sub-scan beam correction before completion of APC or MPC.
E46-34	An attempt was made to perform sub-scan beam interval correction although the image write clock was abnormal.
E46-35	Dual page memory area error Due to the image area abnormality on the memory, image is not decom-pressed on the memory.
F46-40	Hard disk initialization abnormality Hard disk failure, or poor connection of connectors
F46-41	Job information could not be stored on the hard disk.
F46-42	A route could not be opened during hard disk job automatic deletion.
F46-43	Hard disk access failure Hard disk failure or poor connection of connectors
F46-50	Communication error is detected during the tandem operation.
F46-51	An error is detected during the data transfer of tandem image.
F46-60	Adjustment of the sub-scan beam interval is not completed within the specified number of time for the fol-lowing reason: • Defective index sensor • Abnormal 12 VDC power supply • M15 (polygon) driving failure
F46-61	Scanning started before completion of original auto skew correction. (Skew correction was not in time).
F46-62	Printing started before correction of auto paper mis-centering. (Mis-cen-tering correction was not in time).
F46-63	AGC was retried because of reduc-tion in exposure lamp intensity, but no error occurred.
F46-64	The PWM γ curve could not be gen-erated properly.
E46-80	The message queue was insufficient or destroyed.
E46-81	The parameter value is too large.
E46-82	The ID of message queue source task is undefined.
E46-83	The message reception event undefined. is
E46-90	The access to the memoryisillegal.
E46-91	The header read address is illegal
E46-99	E-RDH memory initialization error E-RDH memory may not be con-nected properly.
E50-01	Main body drive serial input error 1. Serial data is not received from the main body drive section within 0.5 second after reception of power-on ACK.
E50-02	Main body drive serial input error 2. Serial data is not received from the main body drive section within 0.5 second after reception of power-on ACK.
E50-03	Main body drive serial input error 3. Serial data is not received from the main body drive section within 0.5 second after reception of power-on ACK.
E50-04	Main body drive serial input error 4. Serial data is not received from the main body drive section within 0.5 second after reception of power-on ACK.
E50-05	Drive board communication recep-tion error detection fault. A reception error occurred during reception of drive board serial data, or a data checksum error or

	ID infor-mation error occurred four consecu-tive times although a resent request had been issued three times.
E50-10	Image control board communication error. Initial data is not received from ICB (image control board) within 10 sec-onds after power-on.
E50-11	Image control board communication serial reception error detection fault.
F52-01	FM13 (power supply cooling) EM sig-nal was abnormal 2 seconds after turning ON FM13. 2 seconds after turning FM13 OFF and ON again, the signal is still abnormal.
F52-02	The MAINFAN_EM signal was abnormal 2 seconds after turning ON FM1 (main body cooling /1). 2 sec-onds after turning OFF and ON again, the signal is still abnormal.
F53-01	5 seconds or later after turning ON M4 (fixing), an abnormal MAINM_EM signal has been detected for 1 consecutive second.
E56-02	Communication between the ICB (image control board) and OB1 (operation board 1) does not start within 30 seconds after SW2 (sub power) turns ON.
F62-01	FM301 (original conveyance motor cooling) EM signal was abnormal 2 seconds after turning ON FM301. 2 seconds after turning FM301 OFF and ON again, an abnormal detec-tion signal is detected.
77-01	The Shift Home Position Sensor (PC10) does not go HIGH even after the lapse of a given period of time after M8 has been energized (to start returning the Elevator Tray to its home position). The Shift Home Position Sensor (PC10) does not go LOW even after the lapse of a given period of time after M8 has been energized (to start moving the Elevator Tray for job off-set).
77-02	The Elevator Tray Upper Limit Sen-sor PQ (PWB-F) does not go LOW even after the lapse of a given period of time after M7 has been energized (to start raising the Elevator Tray). The Elevator Tray Upper Limit Switch (S2) or Elevator Tray Lower Limit Switch (S3) remains actuated for a given period of time after M7 has been energized.
SC77-03	The CD Aligning Home Position Sen-sor (PC9) does not go HIGH even after the lapse of a given period of time after M5 has been energized (to start returning the Aligning Plate to its home position).
SC77-04	The Exit Roll Home Position Sensor (PC13) does not go HIGH even after the lapse of a given period of time after M13 has been energized (to start spacing/pressure sequence).
SC77-05	The Storage Roller Home Position Sensor (PC12) does not go HIGH even after the lapse of a given period of time after M12 has been energized (to start spacing/pressure sequence).
SC77-06	The Staple Home Position Sensor (PC14) does not go HIGH even after the lapse of a given period of time after M6 has been energized (to start returning the Stapling Unit to its home position).
SC77-11	Stapling Motor 2 is not deenergized even after the lapse of a given period of time after it has been energized (to start a stapling sequence).
SC77-12	Stapling Motor 1 is not deenergized even after the lapse of a given period of time after it has been energized (to start a stapling sequence).
SC77-54	The Punch Motor Pulse Sensor (PC15) does not go from LOW to HIGH, or vice versa, even after the lapse of a given period of time after M11 has been energized.
SC77-55	The Hole Punch Position Switch (S4) is not actuated or deactuated even after the lapse of a given period of time after M14 has been energized. *1 : U.S.A. and Canada only
SC77-81	The Transport Unit Entrance Switching Sensor (PC23) does not go from LOW to HIGH even after the lapse of a given period of time after M17 has been energized to select the U path. The Transport Unit Entrance Switching Sensor (PC23) does

	not go from HIGH to LOW even after the lapse of a given period of time after M17 has been energized to select the straight path.
E70-1	Communication error
E70-2	Start response error.
F77-1	The shift unit does not reach the shift position or the HP within the speci-fied time.
F77-2	After M703 (tray up/down) starts operation, PS702 (tray upper limit) or PS707 (stapler paper exit upper limit) does not turn ON within the specified time.
F77-3	After M705 (alignment /U) starts operation, PS708 (alignment HP/U) does not turn OFF within the speci-fied time, or does not turns ON after OFF.
F77-4	After M707 (paper feed roller) starts operation, it does not reach the pre-scribed speed within the specified time.
F77-5	After M708 (paper exit opening) starts operation, its open/close oper-ation does not finish within the spec-ified time. PS712 (paper exit opening HP) does not turn ON or OFF.
F77-6	After M711 (stapler movement) starts operation, PS711 (stapler movement HP) does not turn OFF, or does not turn ON after OFF.
F77-7	After M704 (clincher rotation) starts operation, PS714 (clincher rotation HP) does not turn OFF, or does not turn ON after OFF.
F77-8	After M706 (stapler rotation /R) starts operation, PS713 (stapler rotation HP) does not turn OFF, or does not turn ON after OFF.
F77-11	After M714 (stapler /F) starts opera-tion, PS731 (stapler HP/F) does not turn ON within the specified time.
F77-12	After M709 (stapler /R) starts opera-tion, PS730 (stapler HP/R) does not turn ON within the specified time.
F77-13	After M715 (clincher /F) starts oper-ation, PS733 (clincher HP/F) does not turn ON within the specified time.
F77-14	After M710 (clincher /R) starts oper-ation, PS732 (clincher HP/R) does not turn ON within the specified time.
F77-21	After M718 (folding stopper) starts operation, PS723 (folding stopper HP) does not turn ON within the specified time.
F77-22	After M716 (alignment /L) starts operation, PS724 (alignment HP/L) does not turn ON within the specified time.
F77-25	After M719 (folding knife) starts the HP detecting operation, PS722 (fold-ing knife HP) does not turn ON within the specified time.
F77-26	After M720 (folding conveyance) starts operation, it does not reach the prescribed speed within the specified time.
F77-41	After M202 (tray up/down /L) starts operation, PS209 (tray upper limit /L) or PS210 (tray lower limit /L) do not turn ON within the specified time.
F77-42	After M201 (tray up/down/ U) starts operation, PS204 (tray upper limit /U) or PS205 (tray lower limit /U) do not turn ON within the specified time.
F77-43	After M203 (PI conveyance) starts operation, it does not reach the pre-scribed speed within the specified time.
F77-44	PS803 (punch shift HP) does not turn ON within the specified time after M802 (punch shift) operation has been started.
F77-46	EM signal abnormality is detected within the specified time after FM701 (stacker fan) is turned ON.
F77-47	Communication abnormality occurred between FNS and PK-5. Abnormality remains even when retry operation is executed four times.

F77-52	PS3 (1st stopper HP) does not turn ON within the specified time after M2 (1st stopper) has searched the HP.
F77-53	PS2 (2nd stopper HP) does not turn ON within the specified time after M3 (2nd stopper) has searched the HP.
F77-54	After MC801 (punch) starts opera-tion, PS801 (punch HP) does not turn ON within the specified time.
F77-55	PS4 (punch shift HP) does not turn ON within the specified time after M5 (punch shift) has started to search the HP.
F77-56	Abnormality is found in EM signal of M10 (conveyance motor fan) within the specified time after M10 has been turned ON, and the abnormality remains even when retry operation is executed 3 times after it is turned OFF.
F77-57	M4 (punch) does not turn OFF within the specified time after it has started the operation.
F77-81	After MC712 (gate drive) starts oper-ation, PS716 (gate HP) does not turn ON within the specified time or does not turn OFF after ON.
F77-91	Communication abnormality in FNS CB (FNS control board) when sub-CPU receives data.
F77-92	Communication abnormality in FNS CB (FNS control board) when main CPU receives data.
E80-01	No response from PRCB (printer control board) for 5 seconds after SW2 (sub power) is turned ON.
E80-02	Communication abnormality in PRCB (printer control board).
E80-03	Communication abnormalityation unit. in oper-
F80-11	When SW2 (sub power) was turned ON, an area which had not been writ-ten by ISW was detected in the printer control program.
F80-30	When data is transferred by ISW, nor-mal header information cannot be received within the specified time.
F80-31	When data is transferred by ISW, a checksum error or header error was detected in the downloaded data.
F80-32	When data is transferred by ISW, data cannot be written to the flash ROM properly.
F80-40	When SW2 (sub power) was turned ON, an area which had not been writ-ten by ISW was detected in the FNS program.
E90-01	ADU drive serial input error 1. Serial data from ADUDB (ADU drive board) (ID=0) cannot be received from ACK within 0.5 second when SW2 (sub power) turns ON.
E90-02	ADU drive serial input error 2. Serial data from ADUDB (ADU drive board) (ID=7) cannot be received from ACK within 0.5 second when SW2 (sub power) turns ON.
F92-01	The FM10 (ADU reverse motor cool-ing) EM signal was abnormal 2 sec-onds after turning ON of FM10. 2 seconds after turning FM10 OFF and ON again, the signal is sti