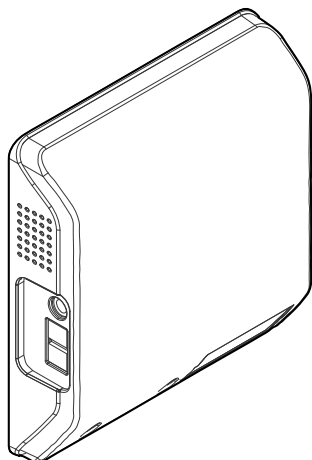


SERVICE MANUAL

DIGITAL FULL COLOR MULTIFUNCTIONAL SYSTEM OPTION FACSIMILE EXPANSION KIT



MODEL **MX-FX15**

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Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.








Symbols in this manual

The lists of symbols used in this manual are shown below.










The meaning of each symbol described in the table must be understood for proper servicing.


















1. Symbols used for notes and cautions






Symbol	Meaning	
 CAUTION	CAUTION	Indicates a general caution item.
 CAUTION HIGH TEMPERATURE	HIGH TEMP	Be careful of a high temperature in the fusing section.
 CAUTION HIGH VOLTAGE	HIGH VOLTAGE	Be careful of an electric shock where a high voltage is applied such as the high voltage PWB, the main charger, and the process section.
 DANGER	DANGER	Indicates danger.
	HANDLE WITH CARE	Indicates a part which requires special care for handling such as the HDD, and the LSU.
	INHIBIT	Indicates inhibit.
	NO ELECTROSTATIC CHARGE	Be careful to keep away from static electricity. (PWB's and electric parts)
	NO DUST, FINGER PRINT, DIRT, SCRATCH	Be careful not to touch directly, such as the optical section, the photoconductor, and the DV roller. Also be careful not to scratch.
	NO SCRATCH	
	NO LIGHT	Be careful not to expose to light, such as the photoconductor, and the test chart.
	NO SOLVENT	Be careful not to use a solvent in cleaning, etc.
	NO DISASSEMBLE	Do not disassemble. Not serviceable. Example CCD unit.

Symbol	Meaning	
	OK/GOOD	Indicates a correct procedure or result in an adjustment, etc.
	NO GOOD	Indicates a wrong procedure or result in an adjustment, etc.
	NOTE	Indicates a note.
	IMPORTANT	Indicates an important item.
	REFER	Indicates a reference page, etc.
	NEW	Indicates a new technology, a new method, or a new item.
	EXAMPLE	Indicates a description using an example.






2. Symbols used in the work contents

Symbol	Meaning (Work content)	
	Adhesion	Indicates that a seal, etc. is attached.
	Adjustment	Indicates an adjustment.
	Measure a dimension or a size.	Indicates that a dimension or a length is measured.
	Apply grease	Indicates that grease is to be applied.
	Apply conductive grease	Indicates conductive grease is applied.
	Cleaning (Dry)	Indicates clean with a dry cloth.
	Cleaning (Wet)	Indicates clean with a cloth dampened with water.
	Cleaning (Alcohol)	Indicates clean with alcohol.
	Cleaning (Blower)	Indicates cleaning is done with a blower/brush.





Symbol	Meaning (Work content)	
	Cleaning (Vacuum)	Indicates that cleaning is performed with a vacuum cleaner.
	Cleaning (Brush)	Indicates that cleaning is performed with a brush.
	Oil	Indicates that oil is applied to lubricate.
	Apply powder.	Indicates that setting power is applied to the photoconductor drum, the transfer belt, etc.
	Replace	Indicates that a part is replaced.
	Check	Indicates that a check (replacement, adjustment, cleaning) is performed.
	Cut	Indicates that cutting is performed.
	Loosen	Indicates that a screw is loosened.
	Connect	Indicates that a connector is connected.
	Disconnect	Indicates that a connector is disconnected.
	Remove a harness.	Indicates that a harness is unsecured.
	Attach a harness.	Indicates that a harness is secured.
	Remove a clamp.	
	Attach a clamp.	
	Release a hook.	Indicates that a hook is released.
	Fix a hook.	Indicates that a hook is fixed.
	Disengage the pawl.	

Symbol	Meaning (Work content)	
	Engage the pawl.	
	Screw lock	Indicates that a screw is secured with adhesive.
	Unlock	
	Turn OFF the power.	
	Disconnect the power plug.	

3. Symbols used for kinds of parts

Symbol	Meaning (Kinds of parts)	
	Maintenance part	Indicates a part which is replaced in a maintenance procedure.
	Consumable part	Indicates a consumable part such as a photoconductor, developer, a transfer belt, etc.
	Waste part	Indicates a waste part which is consumed but excluded from the above consumable parts. (A roller, a seal, etc.)
	Unit part	Indicates a part which is designated as a unit.
	Included part	Indicates a part which is included in the package

4. Symbols used for additional descriptions

Symbol	Meaning	
	View from the top	Indicates from which angle the drawing is viewed.
	View from the bottom	
	View from the front	
	View from the back	

[1] SPECIFICATIONS

1. FAX function

A. Transmission method

Transmission time	Less than 3 sec (Super G3) Less than 7 sec (G3 ECM)
Compression/expansion system	MH, MR, MMR, JBIG (Fixed to ECM for MMR or JBIG.)
Modem speed	33.6kbps → 2.4kbps automatic fallback
Resolution	8 x 3.85 line/mm, 8 x 7.7 line/mm, 8 x 15.4 line/mm, 16 x 15.4 line/mm (Standard memory is used for transmit/receive.)
Intercommunication	G3/Super G3: Standard (V.34, V.17, V.33, V.29, V.27ter)
Communication line	General telephone line (PSTN), ISDN (When TA is installed.) Private Branch Exchange (PBX)
ECM	Yes

B. FAX send / receive

send: 100 documents / 20000 images

receive: 400 documents / 2000 images

ITU-T No.1 chart

[2] FAX SOFTWARE SWITCH

1. List

Note

SW No.	Bit No.	Item	SW selection and function	System settings
1	1-8	Country code	Control is performed according to the set country code. The destination setting that is set in SIM66-2 as the image send function is reflected. The country code setting cannot be directly made from this SW.	

Lines

SW No.	Bit No.	Item	SW selection and function	System settings
2	1-4	Calling Make time (10PPS) setting	Setting of make time when dialling at 10PPS. Make time can be set from 29 to 44ms in 1ms increments by binary inputting N over the range of 0 to 15 (N + 29ms).	Adjustment value
	5-8	Calling Break time setting (10PPS)	Setting of break time when dialling at 10PPS. Break time can be set from 56 to 71ms by 1ms increments binary inputting N over the range of 0 to 15 (N + 56ms).	Adjustment value
3	1-4	Calling Minimum pause time (10PPS) setting	Setting of minimum pause time when dialling at 10PPS. Minimum pause time can be set from 800 to 950ms in 10ms increments by binary inputting N over the range of 0 to 15 (N x 10ms + 800ms).	Adjustment value
	5-8	Calling Minimum pause time (20PPS) setting	Setting of minimum pause time when dialling at 20PPS. Minimum pause time can be set from 450 to 600ms in 10ms increments by binary inputting N over the range of 0 to 15 (N x 10ms + 450ms). Functions only in China and Thailand.	Adjustment value
4	1-4	Calling Make time (20PPS) setting	Setting of make time when dialling at 20PPS. Make time can be set from 9 to 24ms by binary inputting N over the range of 0 to 15 (N + 9ms). Functions only in China and Thailand.	Adjustment value
	5-8	Calling Break time setting (20PPS)	Setting of break time when dialling at 20PPS. Break time can be set from 26 to 41ms by binary inputting N over the range of 0 to 15 (N + 26ms). Functions only in China and Thailand.	Adjustment value
5	1-4	Calling Setting of DTMF send level (high group)	This sets the send level of high area and low area DTMF signals in units of 1dB. Setting can be made over the range of 0dB to 15dB in 1dB increments by binary inputting.	Adjustment value
	5-8		Not used	
6	1-4	Calling Setting of DTMF send level (low group) High group - Low group: level difference	This sets the difference between the DTMF signal high area level and low area level in units of 0.5dB. Setting can be made over the range of -2.0dB to 5.5dB in 0.5dB increments by binary inputting. High group - Low group "0 0 0 0": -2.0dB "1 0 0 0": 2.0dB "0 0 0 1": -1.5dB "1 0 0 1": 2.5dB "0 0 1 0": -1.0dB "1 0 1 0": 3.0dB "0 0 1 1": -0.5dB "1 0 1 1": 3.5dB "0 1 0 0": 0.0dB "1 1 0 0": 4.0dB "0 1 0 1": 0.5dB "1 1 0 1": 4.5dB "0 1 1 0": 1.0dB "1 1 1 0": 5.0dB "0 1 1 1": 1.5dB "1 1 1 1": 5.5dB	Adjustment value
	5-8		Not used	
7	1-8	Calling Setting of DTMF minimum pause time	This sets the minimum pause time between DTMF signals when sending DTMF signals. Minimum pause time can be set by binary inputting N over the range of 0 to 255 (1ms x N). Setting can be made over the range of 50ms to 255ms in 1ms increments by binary inputting. When SW15-3,4 are set to other than "MODEM fixed," the set value less than 54ms is considered as 54ms. The initial value is reverted to if a value outside of the setting range is set.	Adjustment value

SW No.	Bit No.	Item		SW selection and function	System settings
8	1-5	Calling	DTMF signal send time	This sets the time that DTMF signals are sent when sending DTMF signals. Send time can be set over the range of 70 to 310ms in 10ms increments by binary inputting N from 0 to 31 (10ms x N). The initial value is reverted to if a value outside of the setting range is set.	Adjustment value
	6, 7	Calling	Dial call waiting time	This sets the waiting time from the end of line connection to the start of dial call at times of automatic dial calling. "00": 3.5 seconds "01": 4 seconds "10": 5 seconds "11": 6 seconds This only functions when dial tone detection is OFF.	Adjustment value
	8	Calling	Line current detection at times of dial calling	Setting to determine whether or not to call dial following detection of line current during line connection at times of automatic dial calling. "1": No "0": Yes In cases where the setting is "Yes" but no line current can be detected, dial is not called but the busy re-call procedure is followed.	Setting
9	1	Calling	Manual calibration setting when sending	Setting to execute the manual calibration or not when sending. In case of an abnormal current waveform, the auto calibration fails and the DTFM signal is deformed. This setting provides the countermeasure against that problem. "0": Execute "1": Not execute	Setting
	2	Call arrival	Manual calibration setting when a signal arrives	Setting to execute the manual calibration or not when a signal arrives. In case of an abnormal current waveform, the auto calibration fails and the transmission is affected. This setting provides the countermeasure against that problem. "0": Execute "1": Not execute	Setting
	3-5		Not used		
	6	Calling	No. 2 dial tone detection	Setting of ON/OFF of No.2 dial tone detection function. "0": OFF (No. 2 dial tone detection is not performed.) "1": ON (No. 2 dial tone detection is performed.)	Setting
	7	Calling	Dial tone detection	When the setting is "Yes," the dial is sent following confirmation of detection of the dial tone when the line is captured; and when the setting is "No," dial is sent without a dial tone because no confirmation of dial tone detection is carried out after line capture. "0": No "1": Yes	Setting
	8	Calling	Dial tone ON detection time (during continuous detection)	This sets the waiting time from the end of line connection to the start of dial call at times of automatic dial calling. "0": 1.5 seconds "1": 1 seconds	Adjustment value
10	1-4	Calling	Lower limit of dial tone ON/OFF detection time (during intermittent detection)	This sets the lower limit time for detection of dial tone ON/OFF time. Setting can be made over the range of 40ms to 490ms in 30ms increments by binary inputting. (N x 30ms) + 40ms This is only valid during intermittent DT detection.	Adjustment value
	5-8	Calling	Upper limit of dial tone ON/OFF detection time (during intermittent detection)	This sets the upper limit time for detection of dial tone ON/OFF time. Setting can be made over the range of 400ms to 1900ms in 100ms increments by binary inputting. (N x 100ms) + 400ms This is only valid during intermittent DT detection.	Adjustment value
11	1-4	Calling	External line connection number setting 1 <First digit>	When No. 2 dial tone is detected, this area is compared with the external in connection number. If they match, the units waits for No. 2 dial tone. Up to two external line connection numbers (max. 4 digits) can be registered as options. The first digit of the external line connection number 1 is set. The numbers and codes which can be registered are as follows. 0 - 9 / * (a) / # (b) / - (pause) (c) / Not used for this digit and after (d) / Any is OK (f) When set to [e], it is considered as setting to [0].	Setting
	5-8	Calling	External line connection number setting 1 <Second digit>	The second digit of the external line connection number 1 is set. The numbers and codes which can be registered are as follows. 0 - 9 / * (a) / # (b) / - (pause) (c) / Not used for this digit and after (d) / Any is OK (f) When set to [e], it is considered as setting to [0].	Setting

SW No.	Bit No.	Item	SW selection and function	System settings
12	1-4	Calling External line connection number setting 1 <Third digit>	The third digit of the external line connection number 1 is set. The numbers and codes which can be registered are as follows. 0 - 9 / * (a) / # (b) / - (pause) (c) / Not used for this digit and after (d) / Any is OK (f) When set to [e], it is considered as setting to [0].	Setting
	5-8	Calling External line connection number setting 1 <Fourth digit>	The fourth digit of the external line connection number 1 is set. The numbers and codes which can be registered are as follows. 0 - 9 / * (a) / # (b) / - (pause) (c) / Not used for this digit and after (d) / Any is OK (f) When set to [e], it is considered as setting to [0].	Setting
13	1-4	Calling External line connection number setting 2 <First digit>	The first digit of the external line connection number 2 is set. The numbers and codes which can be registered are as follows. 0 - 9 / * (a) / # (b) / - (pause) (c) / Not used for this digit and after (d) / Any is OK (f) When set to [e], it is considered as setting to [0].	Setting
	5-8	Calling External line connection number setting 2 <Second digit>	The second digit of the external line connection number 2 is set. The numbers and codes which can be registered are as follows. 0 - 9 / * (a) / # (b) / - (pause) (c) / Not used for this digit and after (d) / Any is OK (f) When set to [e], it is considered as setting to [0].	Setting
14	1-4	Calling External line connection number setting 2 <Third digit>	The third digit of the external line connection number 2 is set. The numbers and codes which can be registered are as follows. 0 - 9 / * (a) / # (b) / - (pause) (c) / Not used for this digit and after (d) / Any is OK (f) When set to [e], it is considered as setting to [0].	Setting
	5-8	Calling External line connection number setting 2 <Fourth digit>	The fourth digit of the external line connection number 2 is set. The numbers and codes which can be registered are as follows. 0 - 9 / * (a) / # (b) / - (pause) (c) / Not used for this digit and after (d) / Any is OK (f) When set to [e], it is considered as setting to [0].	Setting
15	1, 2	Calling DT/BT detection level	This sets the minimum detection level for determining that dial tone and busy tone have been detected. Signal levels not larger than this setting are ignored. "00": -43dB "01": -35dB "10": -33dB "11": -30dB DT, BT common	Adjustment value
	3, 4	Calling DT/BT detection frequency range setting	This sets the detection frequency range when detecting dial tone and busy tone. Change the setting if dial tone and busy tone are erroneously detected. "00": MODEM fixed (about 308Hz - 517Hz) "01": 420Hz - 680Hz "10": 360Hz - 440Hz "11": 245Hz - 650Hz For CTR21: 245Hz - 650Hz	Adjustment value
	5	Calling Busy tone detection	Setting to determine whether or not to detect the busy tone signal during automatic dial calling and when the external telephone simulated call sound is ringing. "0": Detect "1": Do not detect	Setting
	6	Calling Busy tone OFF non-detection time	This sets the non-detection time on the busy tone OFF section. Change the setting in cases where noise, etc. on the busy tone ON section adversely affects the ON section. "0": 100ms "1": 300ms * Make shorter than the "busy tone OFF detection time."	Adjustment value
	7, 8	Calling Lower limit of busy tone ON detection time	This sets the lower limit time of the ON section when detecting frequency of the busy tone signal. If busy tone signals are not detected in excess of this time, do not count as 1 pulse. "00": 250ms "01": 140ms "10": 450ms "11": 350ms	Adjustment value

SW No.	Bit No.	Item		SW selection and function	System settings
16	1, 2	Calling	Upper limit of busy tone ON detection time	This sets the upper limit time of the ON section when detecting frequency of the busy tone signal. If busy tone signal is detected in excess of this time, do not count as 1 pulse. "00": 750ms "01": 650ms "10": 1000ms "11": 2850ms	Adjustment value
	3, 4	Calling	Lower limit of busy tone OFF detection time	This sets the lower limit time of the OFF section when detecting frequency of the busy tone signal. If busy tone OFF signals are not detected in excess of this time, do not count as 1 pulse. "00": 250ms "01": 140ms "10": 450ms "11": 350ms	Adjustment value
	5, 6	Calling	Upper limit of busy tone OFF detection time	This sets the upper limit time of the OFF section when detecting frequency of the busy tone signal. If busy tone signal is detected in excess of this time, do not count as 1 pulse. "00": 750ms "01": 650ms "10": 1000ms "11": 2850ms	Adjustment value
	7, 8		Not used		
17	1-4	Call arrival	Call signal OFF non-detection time	This sets the time for ignoring OFF signals and regarding ON time to be continuous following ON detection of the call signal (CI). This is intended to treat the PBX call signal "ring-ring" as a single call signal. Setting can be made over the range of 0ms to 1500ms in 100ms increments by binary inputting.	Adjustment value
	5-8	Call arrival	Lower limit of call signal ON time	This sets the minimum ON time for detecting call signal (CI) pulses (number of pulses). 1 pulse is counted if the CI signal remains ON for the set ON time or longer. Setting can be made over the range of 150ms to 300ms in 10ms increments by binary inputting.	Adjustment value
18	1-4	Call arrival	Upper limit of call signal ON time	This sets the maximum ON time for detecting call signal (CI) pulses (number of pulses). Disregard and do not count as 1 pulse if the CI signal remains ON for the set ON time or longer. Setting can be made over the range of 3000ms to 4500ms in 100ms increments by binary inputting.	Adjustment value
	5-8	Call arrival	Lower limit of call signal OFF time	This sets the minimum OFF time for detecting call signal (CI) pulses (number of pulses). 1 pulse is counted if the CI signal remains OFF for the set OFF time or longer. Setting can be made over the range of 100ms to 1500ms in 100ms increments by binary inputting. Setting range When 0 is set, initial value 700ms operation takes place.	Adjustment value
19	1, 2	Call arrival	Upper limit of call signal OFF time	This sets the maximum waiting time from detection of the call signal (CI) pulse (number of pulses) to detection of the next CI signal pulse. Accordingly, if the next CI signal pulse is not detected within this time, the number of calls up to now is cleared. "00": 6.5 seconds "01": 10 seconds "10": 15 seconds "11": 20 seconds	Adjustment value
	3	Call arrival	CI clear judgment	Setting of the judgment of CI signal 1 cycle. "1": Cleared only when the max. cycle is exceeded. (The min. cycle is 0.) "0": Cleared when outside the range of 1 cycle. (The min. and the max. cycles are set with other soft switches.)	
	4, 5	Call arrival	Filter time when the CI signal is detected.	The detection sampling time of the CI signal is set in the CI signal detection setting. "00": 10ms "01": 5ms "10": 15ms "11": 20ms	
	6-8		Not used		
20 - 23	1-8		Not used		

Communications

SW No.	Bit No.	Item		SW selection and function	System settings
24	1-8	Communication	Signal sending level	<p>Set the level adjustment for sending signals from the modem. Setting can be made over the range of 0 to 26 in 1dBm increments by binary inputting. Since the maximum level differs according to country, if a value above the maximum level is set, the maximum value for the present country code will be adopted. (For North America and China, there is no limitation on the max. send level.)</p> <p>When set to a value greater than the upper limit, it is considered as setting to the upper limit. When set to a value smaller than the lower limit, it is considered as setting to the lower limit.</p> <p>If, however, it is set to 27 to 255, it is considered as setting to 26.</p>	Adjustment value
25	1-3	Transmission	Setting of call time (T0 timer setting) in automatic transmission	<p>Setting to determine how many seconds to call when the other party doesn't respond at times of automatic transmission.</p> <p>Setting can be made over the range of 30 to 60 (China: 30 to 45, Russia: 30 to 35) seconds in 15 (Russia: 5) second increments by binary inputting N ((15 (Russia: 5) seconds x N) + 30 seconds).</p> <p>The initial value is reverted to if a value outside of the setting range is set.</p>	Timer
	4-7	Communication	T1 timer setting	<p>Setting to determine how many seconds the line is connected when the other party's machine doesn't respond to FAX communication.</p> <p>Setting can be made over the range of 30 to 105 seconds in 5-second increments by binary inputting ((5 seconds x N) + 30 seconds).</p> <p>T1 timer is the timer used from the point where the other party's machine recognizes (CED or DCS) as FAX following line connection. 35±5 seconds according to the ITU-T standard.</p>	Timer
	8	Communication	Si3056 SiDAA Reg.31 FILT	<p>Setting to determine whether the signal of the following signal frequency band or less should be reduced or not.</p> <p>This setting is available when there is the noise on the signal frequency band of 300Hz or less. If there is the noise on the signal frequency band of 300Hz or less, the phenomenon that cannot receive FAX signal from the other side of the machine at all will happen.</p> <p>"0": Reduce the signal of 5Hz or less "1": Reduce the signal of 200Hz or less</p>	
26	1, 2	Communication	T2 timer setting	<p>The time until a command is received is set.</p> <p>"00": 6 seconds "01": 7 seconds "10": 8 seconds "11": 9 seconds</p> <p>This is the timer for receiving a command such as the DIS signal. 6±1 seconds in the ITU-T standards.</p>	
	3, 4	Communication	T4 timer setting Timer during automatic operation (+1.5 seconds at times of manual operation)	<p>This sets the timer for up until reception of the response.</p> <p>+1.5 seconds at times of manual operation</p> <p>"00": 3 seconds "01": 4 seconds "10": 5 seconds "11": 6 seconds</p> <p>This is the timer for up until reception of the response to the DCS signal, etc. 3 seconds ±15% under the ITU-T standard.</p>	Timer
	5	Reception	EOL detection timer	<p>Setting to determine how many seconds to set the detection timer for EOL (EndOfLine) during Phase-C reception in G3.</p> <p>"0": Setting to 13 seconds "1": Setting to 25 seconds</p> <p>When error occurs in EOL detection, treat as non-detection of EOL.</p>	Timer
	6	Communication	Sharp machine mode	<p>Setting is made whether Sharp's unique procedures (relay, confidential) are allowed or not by not sending NSF/NSS/NSC and not confirming that the machine is a Sharp machine or not.</p> <p>"0": Check "1": Not check</p>	
	7, 8	Communication	Modem lightning protection measures	<p>Function that corresponds to IEC lightning surge requirements as prescribed in the European CE standard.</p> <p>In cases where the machine cannot shift from CFR or MCF to high-speed signals (image signals) due to lightning interference, this extends the MPS waiting time.</p> <p>"00": 0 second "01": 20 seconds "10": 30 seconds "11": 40 seconds</p>	Setting

SW No.	Bit No.	Item		SW selection and function	System settings
27	1, 2	Reception	CED signal sending time	This sets the time over which the CED signal is sent. "00": 3 seconds "01": 4 seconds "10": 5 seconds "11": No	Communication/ Adjustment value
	3	Reception	CED/ANSam detection time	This sets the time up until determination of the signal when detecting CED/ANSam signals. "0": 500ms "1": 1000ms	Adjustment value
	4	Reception	V.34 mode function (on call arrival)	Setting to determine whether or not to make the V.34 mode valid as machine capacity when receiving (on call arrival). "0": V.34 valid "1": V.34 invalid	Setting
	5	Transmission	V.34 mode function (including polling when calling)	Setting to determine whether or not to make the V.34 mode valid as machine capacity when transmitting (calling and polling). "0": V.34 valid "1": V.34 invalid	Setting
	6	Transmission	V.34 mode function at times of manual communication	Setting to determine whether or not to make the V.34 mode valid at times of manual communication (transmitting and receiving). "0": V.34 valid "1": V.34 invalid However, in cases where the V.34 mode function (including polling when calling) is set at 1: V.34 invalid, the V.34 mode will be rendered invalid even if this SW is set to 0: valid.	Communication/ Setting
	7	Transmission	3429 symbol rate transmission enable during V.34 transmission.	Setting to determine whether or not to enable 3429Hz as the symbol rate for V.34. When this is at "disable," 3429Hz is not selected. However, only valid during transmission. "0": disable "1": enable	Setting
28	8	Transmission	Symbol rate 3200 high carrier transmission enable during V.34 transmission	When 3200Hz is selected as the V.34 symbol rate, there are Low/High carriers, but this setting determines whether or not both can be used. When this is at "disable," 3200 High is not selected. However, only valid during transmission. When both Low/High are at "disable," SymbolRate=3200Hz is not selected. "0": disable "1": enable	Setting
	1	Transmission	Symbol rate 3200 low carrier transmission enable during V.34 transmission	When 3200Hz is selected as the V.34 symbol rate, there are Low/High carriers, but this setting determines whether or not both can be used. When this is at "disable," 3200 Low is not selected. However, only valid during transmission. "0": disable "1": enable	Setting
	2	Transmission	Symbol rate 3000 high carrier transmission enable during V.34 transmission	When 3000Hz is selected as the V.34 symbol rate, there are Low/High carriers, but this setting determines whether or not both can be used. When this is at "disable," 3000 High is not selected. However, only valid during transmission. When both Low/High are at "disable," SymbolRate=3000Hz is not selected. "0": disable "1": enable	Setting
	3	Transmission	Symbol rate 3000 low carrier transmission enable during V.34 transmission	When 3000Hz is selected as the V.34 symbol rate, there are Low/High carriers, but this setting determines whether or not both can be used. When this is at "disable," 3000 Low is not selected. However, only valid during transmission. "0": disable "1": enable	Setting
	4	Transmission	Symbol rate 3429 enable during V.34 transmission	Setting whether use of 3429Hz is enabled or not as the symbol rate in V.34 transmission. When this is set to [Disable], 3429Hz cannot be selected. "0": disable "1": enable	
	5	Transmission	Symbol rate 2800 enable during V.34 transmission	Setting to determine whether or not to enable 2800Hz as the symbol rate for V.34. When this is at "disable," 2800Hz is not selected. "0": disable "1": enable	Setting
6	Transmission	Symbol rate 2743 enable during V.34 transmission	Setting to determine whether or not to enable 2743Hz as the symbol rate for V.34. When this is at "disable," 2743Hz is not selected. "0": disable "1": enable	Setting	

SW No.	Bit No.	Item		SW selection and function	System settings
28	7, 8	Communication	Coding capacity during transmission and reception (V.34 communication) (reflected in DIS/DCS/DTC)	This sets the coding capacity that is communicated to the other party's machine in V.34 communication. "00": JBIG/MMR/MR/MH "01": MMR/MR/MH "10": MR/MH "11": MH	Communication/Setting
29	1, 2	Communication	Coding capacity during transmission and reception (other than V.34 communication) (reflected in DIS/DCS/DTC)	This sets the coding capacity that is communicated to the other party's machine in communication other than V.34. "00": JBIG/MMR/MR/MH "01": MMR/MR/MH "10": MR/MH "11": MH	Communication/Setting
	3-6	Transmission	Modem transmission speed (Other than V.34) (DCS)	This sets the initial speed (upper limit) in transmission of other than V.34. Reflect in DCS. When the default setting is made, V.17 14400bps is notified to the other party's machine. Communication does not always happen at this speed. "0000": V.27ter 2400bps "1000": V.17 14400bps "0001": V.29 9600bps "1001": V.17 9600bps "0010": V.27ter 4800bps "1010": V.17 12000bps "0011": V.29 7200bps "1011": V.17 7200bps "0100": V.33 14400bps "1100": V.17 14400bps "0101": V.17 14400bps "1101": V.17 14400bps "0110": V.33 12000bps "1110": V.17 14400bps "0111": V.17 14400bps "1111": V.17 14400bps	Speed/Adjustment value
	7, 8	Reception	Fixing of modem speed during reception (Other than V.34) (DIS)	This sets the initial speed (upper limit) in transmission of other than V.34. When the default setting is made, V.17 14400bps is notified to the other party's machine. Communication does not always happen at this speed. "00": Not fixed "01": V.29-9600bps "10": V.27ter-4800bps "11": V.17-14400bps	Speed/Setting
30	1-4	Reception	V.34 Symbol Rate Mask (when receiving)	This sets the symbol rate when receiving in the V.34 mode. "0000": 2400 "0001": 2400 "0010": 2800/2400 "0011": 3000/2800/2400 "0100": 3200/3000/2800/2400 "0101": 3429/3200/3000/2800/2400 When set at a value other than those shown above, the initial value of "0101" is activated.	Communication/Setting
	5	Transmission	Echo countermeasure (setting of hold time between DIS reception and sending of signal) when transmitting.	Setting to determine how many seconds the interval is from receiving DIS to sending the DCS signal. This is only valid for communications of other than V.34. "0": 500msec "1": 800msec	Communication/Setting
	6	Reception	Echo countermeasure (CED tone sending interval) when receiving	Setting to determine how many seconds the interval is from sending CED or ANSam to sending the DIS FSK signal. "0": 75msec "1": 500msec	Communication/Setting
	7	Transmission	Confirmation of DIS reception when sending	Setting to determine how to confirm DIS reception when transmitting. "0": Once regardless NSF reception "1": Twice Valid apart from V.34	Communication/Setting
	8	Reception	Enable/Disable of 33 bit or later of DIS (Reflected only to DIS)	Setting whether DIS is limited to 32 bit or not when receiving FAX. When limited, JBIG reception, F code reception, and UFN reception cannot be made. However, sending is enabled as well as polling. "0": Enable (33 bit or later enabled) "1": Disable (33 bit or later disabled)	

SW No.	Bit No.	Item		SW selection and function	System settings
31	1	Reception	CSI sending	Setting to determine whether or not to send the CSI signal. The CSI signal contains the transmission source number. "0": Yes (send the CSI signal) "1": No (do not send the CSI signal)	Setting
	2	Transmission	Echo suppressor tone setting No. 1	Setting to determine whether or not to have the echo suppressor tone in the high-speed modulation mode. "0": With V33 "1": Without V33	Setting
	3	Transmission	Echo suppressor tone setting No. 2	Setting to determine whether or not to have the echo suppressor tone in the high-speed modulation mode. "0": With V17 "1": Without V17	Communication/ Setting
	4	Transmission	Echo suppressor tone setting No. 3	Setting to determine whether or not to have the echo suppressor tone in the high-speed modulation mode. "0": With V29 "1": Without V29	Setting
	5	Transmission	Echo suppressor tone setting No. 4	Setting to determine whether or not to have the echo suppressor tone in the high-speed modulation mode. "0": With V27 "1": Without V27	Communication/ Setting
	6, 7	Reception	Image capacity when receiving (Reflect in DIS, Do not reflect in DTC.)	This sets the reception resolution capacity when FAX calls arrive (when sending DIS). Reflect in DIS, Do not reflect in DTC. "00": Very fine "01": Fine "10": When small "11": Ordinary lettering	Setting
	8	Reception	CFR / FTT return setting when CD signal does not turn off when TCF signal is received	"0": Do not return CRF/FTT (Default) "1": Return CFR/FTT At TCF reception, set whether or not the CFR or FTT signal is returned from the own machine when the CD signal is not turned off during SW 32-5 "timeout time setting after TCF signal reception start".	Setting
32	1, 2	Reception	Designation of reception size (indicating the width of reception capacity)	This sets this machine's receivable document width that is notified to the other party's machine when receiving. "00": By loaded cassette "01": A4 width "10": B4 (A4, B4) width "11": A3 (A4, B4, A3) width When using the loaded cassette, width is as follows depending on the maximum cassette size. A5/5.5x8.5R size: A4 width B5 size: B4 width A4/8.5x11 size: A3 width 8.5x13/8.5x14: A3 width B4 size: B4 width 11x17: B4/A3 width (changeover by means of the FAX soft SW) A3 size: A3 width A3 width is adopted in cases where a tray capable of receiving and printing facsimiles is not set and cases where all cassettes are open.	Setting
	3	Transmission	Training	Setting whether the training in high speed sending is set to long or short in V.17. "0": Short "1": Long	
	4	Reception	Reception gain changeover when receiving	Setting to determine the FTT determination method when confirming TCF reception. "0": Judge the EQM value to determine if the received data is 0 "1": Only judge from the EQM value. Accordingly, TCF confirmation becomes loose	Communication/ Setting
	5	Reception	Time out time setting after starting TCF signal reception	The time for time out is set after starting TCF signal reception. "0": 4 seconds "1": 2 seconds	Setting
	6	Communication	Time between DCS-TCF	Setting to determine how many seconds in the interval between DCS transmission and sending of the TCF signal. "0": 75msec "1": 150msec 75±20ms in the ITU-T standard.	Adjustment value
	7, 8	Communication	300bps preamble send time	The preamble send time is set in the FSK signal sending. "00": 0.5 seconds "01": 1 second "10": 1.5 seconds "11": 2 seconds	

SW No.	Bit No.	Item		SW selection and function	System settings
33	1, 2	Transmission	Phase-C head dummy data send time	Setting of the time to send the dummy data until sending the head data when sending in Phase-C. "00": 0.3 seconds "01": 0.4 seconds "10": 0.5 seconds "11": 0.2 seconds When the dummy data send time is increased, the remote machine which receives data can easily detect high speed signals.	
	3	Communication	Error handling when transmission and receiving RTN	Setting to determine whether or not to recognize communication errors when receiving RTN signals (only in the V.17 mode). "0": Recognize errors during RTN reception "1": Do not recognize error during RTN reception	Setting
	4, 5	Reception	SED ON level when receiving	Setting of an indication of the receivable level when receiving FAX signals. When noises are picked up and PPR occurs frequently, set to "-43dBm" or greater. (For example, "-38dBm.") "00": -48dBm "01": -38dBm "10": -33dBm "11": -43dBm	
	6, 7	Transmission	Transmission cable amplitude equalizer	When sending FAX signals, apply different gain from the frequency to the data signals between the modem and line. Setting to determine how high to make the 4000Hz gain compared to 0Hz. "00": 0dB "01": 4dB "10": 8dB "11": 12dB Indispensable in Australia	Communication/ Adjustment value
	8		Not used		
34	1, 2	Reception	Receive cable amplitude equalizer	When FAX signals are received, a gain different from the frequency is applied to the data signals between the MODEM and the line. Setting of how much greater the gain of 4000Hz is set when compared with 0Hz. "00": 0dB "01": 4dB "10": 8dB "11": 12dB	
	3-8		Not used		
	35	1-8	Not used		

Functions

SW No.	Bit No.	Item		SW selection and function	System settings
36	1, 2		Not used		
	3	Print	Print setting when there is no communication record table data	Setting to determine whether the record table is printed or not in the list printing from the system when there is no record data (history) which have not printed in printing of the communication record table. The list printing from the system setting is as follows: • Print output by selecting from the data list print • Time specification print from the FAX setting or print at memory full "0": Do not print → "No print data" is displayed and printing of a list is disabled. "1": Print → A list is printed though there is no new history. This setting is used to check that there is no new history.	
	4	Print	Report output (when cancelled)	Setting to determine whether or not to output the communication results sheet in cases where document transmission is cancelled while in progress. "0": Do not output "1": Output	
	5	Print	Report output (when refusing reception) <FAX only>	Setting to determine whether or not to output the communication results sheet when reception is refused in FAX reception. However, other than not printing is set by means of the report output (when receiving) setting. "0": Do not output "1": Output Internet FAX is set by means of SW92-2. Irrespective of "Always print" and "Error," the results sheet is not printed.	
	6	Print	Printing of transmitted document contents at times of F code communication <FAX only>	Setting to determine whether or not to print part of the transmitted document on the communication results sheet at times of F code communication. However, only when the "Document contents printing at times of transmission" setting is valid. "0": Do not print "1": Print The "Document contents printing (results sheet) at times of transmission" setting takes priority.	

SW No.	Bit No.	Item	SW selection and function	System settings
36	7	Print Document content print when sending (PC-Fax (Internet Fax) report table)	Setting to print images or not on the report table when sending PC-Fax (Internet Fax). "0": Not print "1": Print When the system setting is set so that images are added in the communication report table, if the destination is a PC-Fax (Internet Fax), the document contents are printed by this setting.	
	8	Print Set the number of characters for sender printing	"0": 20 characters (Default) "1": 40 half-pitch characters / 20 full-pitch characters	
37	1, 2	Function Protocol monitor	Setting to determine whether or not the protocol monitor (recognized by the FAX) for 1 communication is printed. "00": No (do not print) "01": No (do not print) "10": Print (always) "11": Only at times of error (print) When a new communication occurs before the protocol monitor is printed, delete the old protocol data (overwrite).	
	3	Function Determination of sub-scan length (determination setting when selecting the page)	Setting to determine whether to give priority to width or length when selecting the optimum sheet when printing received data. "0": Priority to data length "1": Priority to data width	
	4	Print Paper selection when reception printing (LTR/A4)	Used to set whether LTR is confirmed first of all in selection of paper for reception printing or paper that provides smaller reduction rate of A4 and LTR is selected. "0": Priority on LTR/A4 reduction rate "1": Priority on LTR	
	5	Not used		
	6	Function Valid/Invalid setting of FAX A4, 8.5 x 11 threshold	When printing received FAX data with A4 and 8.5 x 11 paper in the tray, this setting determines whether to make threshold values in paper selection valid or invalid. If made valid, it becomes easier to select letters. "0": Valid "1": Invalid When printing received Internet FAX data, conduct setting using the separate SW (Valid/Invalid setting of Internet FAX A4, 8.5 x 11 threshold).	
	7	Reception Setting of the reception width of 11x17 sheet	This sets the receivable document width in cases where "11 x 17 sheet" is selected as the FAX printing paper. "0": A3 width (A3, B4, A4) "1": B4 width (B4, A4)	
	8	Communication Data line parity check (Between ICU - FAXBOX)	The parity on the data line between the ICU and the FAXBOX is checked. (Supporting the E7-06 problem) "0": Parity is checked. "1": Parity is not checked.	
38	1-4	Function Magnification setting in automatic reduction	Setting to determine the page length for reduced printing of documents received when automatic reduced printing is set at permitted. Percentage threshold that can be reduced (excluding reduction between fixed page sizes) Setting can be made over the range of 85% to 100% in 1% increments by binary inputting ($N \times 1\% + 85\%$). The initial value of 90% is reverted to if a value outside of the setting range is set.	
	5	Print Rotated printing	Setting to determine whether or not to rotate and output received data when this is possible at times of receiving and printing FAX and Internet FAX data. "0": Permitted (rotate and print) "1": Prohibited (do not rotate and print)	
	6	Print Designation of rotation direction when printing on both sides and the rear side.	Setting to determine whether to adopt vertical binding or horizontal binding when printing on both sides. When horizontal binding is selected, the header position on both sides (front and rear) is printed in the same direction. When vertical binding is selected, since the image rotates by 180 degrees, the header position is reversed. "0": Horizontal binding "1": Vertical binding	
	7	Function Setting of received document output when receiving	Setting to determine whether to output data received in FAX, Internet FAX communications en masse or to output 1 page at a time as it is received. "0": Save and output en masse following completion of reception "1": Output 1 page at a time	
	8	Print Selection of error page output when error occurs during FAX reception.	Setting to determine whether to output the error page or to not output it and discard it in cases where communication errors occur during FAX reception. "0": Output the error page "1": Do not output the error page However, in cases where errors occur during F code relay-instructed reception or F code confidential reception, the error page is not outputted irrespective of this SW setting.	

SW No.	Bit No.	Item	SW selection and function	System settings
39	1	Transmission Selection of re-send page at times of error	Select the page to be re-sent when errors occur during transmissions that do not contain F code. "0": Error page and onwards (re-send from the pages that have not been transmitted to the other party's machine). "1": All pages (re-send from the first page including pages that have been transmitted to the other party's machine). When transmitting in F code, all pages are re-transmitted irrespective of this setting.	
	2	Print Selection of date and transmission source print language <Format>	Setting to determine the format of the date and transmission source attached when transmitting FAX. "0": Date format "1": North American format	
	3	Print Relay data output	Setting to determine whether or not to output documents received from the relay command station when F code relay broadcast instructions are received. "0": Output "1": Do not output	
	4	Transmission F code relay broadcast FAX sender addition setting	Setting to determine whether the machine's sender is added or not when relay broadcast send is performed to the FAX remote machines which are registered in the machine (relay broadcast instruction receiving station) after receiving the F code relay broadcast instruction is received from a remote machine. This is in order to cope with the FAX circular specifications. "0": Added "1": Not added	
	5	Communication F code communication error handling	Setting to determine whether or not to re-send at times of F code communication. "0": Re-send "1": Do not re-send However, do not re-call in cases where the "Re-call permission at times of communication error" setting is at "0: Prohibited." Do not re-send when the other party's machine does not have F code functions.	
	6	Transmission F code password transmission setting when the other party's machine has no password capacity	Setting to determine the communication procedure in cases where the other party's machine has no F code password capacity when conducting F code communication. "0": Disconnect with DCN "1": Send with password	
	7	Function Remaining receivable memory	Setting to determine whether to issue a call when remaining memory reaches 64KB or less or 128KB or less. "0": 128KB "1": 64KB	
	8	Function External telephone setting when no sound is set	Setting to determine whether or not to use external telephone when no sound is set. When the no sound priority setting is made, reception operation is soundless but communications cannot be sent to and from an external telephone. When the external telephone priority setting is made, communications can be sent to and from an external telephone, but reception operation sounds once. "0": External telephone priority "1": No sound priority	
40	1		Not used	
	2	Reception Setting to refuse reception at times of manual reception (FAX)	Setting to determine whether or not to validate refusal of reception of designated numbers. However, only at times of manual reception. "0": Receipt of designated number is not refused (invalid) "1": Receipt of designated number is refused (valid) However, at times of automatic reception, perform using a separate SW (Setting to refuse reception at times of automatic reception). Only valid in cases where the "Specified number reception Enable/Disable setting (FAX)" is refused.	
	3	Reception TSI judgment setting (no signal or all space) when refusing reception from designated numbers	Setting to determine whether to refuse or permit reception when there are no TSI signals from the other party's machine or signals are all spaced in cases where the refusal of designated number reception set by system setting is valid. "0": Reception will be permitted. "1": Reception will be refused. Only valid in cases where the "Specified number reception Enable/Disable setting (FAX)" is refused.	
	4	Reception TSI judgment setting (No numbers and no space can be used.) when refusing reception from designated numbers	Setting to determine whether to refuse or permit reception when TSI signals from the other party's machine are no numbers and no space can be used reception set by system setting is valid. "0": Reception will be permitted. "1": Reception will be refused. Only valid in cases where the "Specified number reception Enable/Disable setting (FAX)" is refused.	

SW No.	Bit No.	Item		SW selection and function	System settings
40	5	Communication	PIN code correspondence	Setting to determine whether or not to limit FAX dial number display to 16 digits. When this is set to "1: Correspond," FAX number display based on the resend key and the other party's number on the job status completion screen are displayed from the start to the 16th digit. When this SW is set as valid, it is also reflected in report contents. "0": Do not correspond "1": Correspond FAX address display limit (displayed up to the 16th digit from the front)	
	6-8		Not used		
41	1		Not used		
	2	Function	Reversion from the energy saving state (excluding preheat) when the external telephone is off-hook	Setting to determine whether or not to revert from energy saving with the external telephone off the hook in the energy saving state (excluding preheat). "0": Do not revert "1": Revert	
	3		Not used		
	4	Function	Scope of line sound monitor	Setting to determine the scope of monitoring when the line monitor function is used When "Until NSF signal send/receive" is set, monitoring is conducted until the DCS or NSF signal is received. When "All" is set, everything is monitored until the line is disconnected. "0": Until NSF signal send/receive "1": All Setting of line monitor sound ON/OFF is done by a separate SW.	
	5	Call arrival	V150V24 detection setting	Setting of detection when non-ringing setting is received. "0": 24V detection "1": 150V detection	
	6		Not used		
	7	Function	Hook detection setting for external phone	"0": SIDAA (Default) "1": EXHS-(Photo coupler) or HS1/HS2 (Current sensor)	
8		Not used			
42 - 89	1-8		Not used		

Others

SW No.	Bit No.	Item		SW selection and function	System settings
90	1	Internet FAX	Addition of Content-X-CIAJWNETFAX field (in internet FAX send)	Setting to determine whether or not "CONtEnt-X-CIAJWNETFAX" is added to the mail field in Internet FAX send. By adding this field, printing of the mail text on the Internet FAX receiving side can be inhibited (however, this function is only valid when the Internet FAX receiving side supports this field). "0": Do not add field "1": Add IGNORE	
	2	Internet FAX	Resolution type of internet FAX	This sets the type of reading resolution when sending Internet FAX. "0": inch type "1": mm type	
	3	Scanner	Setting of E-Mail sending (Return address)	Setting to determine whether the return address is added or not when the mail content is modified in returning Scan to E-Mail. "0": Return address is not added. "1": Return address is added.	
	4	Scanner	Setting of E-Mail sending (Header)	Setting to determine whether the device name, the model name, and the installing place are added to the header or not when the mail content is modified in returning Scan to E-Mail. "0": The header is not added. "1": The header is added.	
	5	Internet FAX	Setting of internet FAX sending (Return address)	Setting to determine whether the return address is added or not when the mail content is modified in returning internet FAX. "0": Return address is not added. "1": Return address is added.	
	6	Internet FAX	Setting of internet FAX sending (Header)	Setting to determine whether the device name, the model name, and the installing place are added to the header or not when the internet FAX mail content is modified. "0": The header is not added. "1": The header is added.	
	7	Internet FAX	Selection of the Internet FAX date and transmission source print language <format>	Setting to determine the format of the date and transmission source attached when transmitting Internet FAX. "0": Date format "1": North American format	
	8	Scanner	File name replacement setting (ScanToXXX) (Line break prohibit)	Setting to determine whether the codes registered in the US-ASCII are replaced with " _ " or not for the file name in ScanToXXX and the file name used as a link destination of a hyper link mail. "0": Not replaced "1": Replaced (Replaced with " _ ")	

SW No.	Bit No.	Item	SW selection and function	System settings
91	1	Scanner Setting of attaching "\ (back slash)" to a common folder name or a file name in ScanToSMB.	Setting to determine whether "\ (back slash)" is attached to the head of a file name or not. "0": Not attached (When this setting is selected, the file name is as "common folder name\file name.") "1": Attached (When this setting is selected, the file name is as "common folder name\file name.")	
	2	Scanner Secondary storage background process inhibit in scanner send (other than USB)	Setting to determine whether the secondary storage process in ScanToXXX is performed in the background or in the foreground with "Processing" displayed on the operation panel. "0": Enable (Background process) "1": Inhibit (Foreground process)	
	3	Scanner Secondary storage background process when the send data upper limit setting is valid	Setting to determine whether the secondary storage process in ScanToXXX (except for ScanToUSB) when the send data upper limit setting is valid is performed in the background or in the foreground with "Processing" displayed on the operation panel. "0": Disable (Foreground process) "1": Enable (Background process) When the soft SW91-2 "Secondary storage background process inhibit in scanner send (other than USB)" is set to "1: Inhibit," the process is made in the foreground regardless of this setting.	
	4, 5	Internet FAX Setting of size selection in the internet FAX reception (AB series)	The paper sizes which can be selected in the paper selection of the internet FAX reception are set. Since, in the paper selection for the internet FAX reception, only one paper size can be selected according to the received data width and the number of lines, a user who does not use B5 paper (does not load B5 paper in the cassette) cannot print until B5 paper is loaded. To avoid this inconvenience, the user can use this setting for the paper size prepared in the cassette. "00": Selection from B5/A4/B4/A3 "01": Selection from A4/B4/A3 "10": Selection from A4/A3 "11": Selection from A5/B5/A4/B4/A3	
	6	Internet FAX Valid/Invalid setting of Internet FAX A4, 8.5 x 11 threshold	When printing received Internet FAX data with A4 and 8.5 x 11 paper in the tray, this setting determines whether to make threshold values in paper selection valid or invalid. "0": Valid "1": Invalid Setting of FAX received data is performed by means of a separate SW.	
	7	Internet FAX Setting of Enable/Disable of the threshold value of the internet FAX Mexican legal, foolscap	Setting to change the print paper judgment. When Mexican legal is received, if the automatic reduction is made, it may be printed in foolscap because of the small threshold value. When Enable, Mexican legal can be selected easily. "0": Enable "1": Disable Setting of FAX received data is performed by means of a separate SW.	
	8	Internet FAX Setting of Enable/Disable of the threshold value of the internet FAX Mexican legal, legal	Setting to change the print paper judgment. When Legal is received, if the automatic reduction is made, it may be printed in Mexican legal because of the small threshold value. When Enable, Legal can be selected easily. "0": Enable "1": Disable Setting of FAX received data is performed by means of a separate SW.	

SW No.	Bit No.	Item	SW selection and function	System settings
92	1	Internet FAX Setting of text printing when receiving mails without attached files	Setting to determine whether or not to print mail texts when incoming mails do not have attached files. "0": Do not print mail letters "1": Print the main text of mails (Communication results error)	
	2	Internet FAX Report output (when reception is refused) <Internet FAX only>	Setting to determine whether or not to output the communication results sheet when reception is refused in Internet FAX reception. However, other than not printing is set by means of the report output (when receiving Internet FAX) setting. "0": Do not output "1": Output FAX is set at "Report output (when reception is refused) <FAX only>." Irrespective of "Always print" and "Error," the results sheet is not printed.	
	3	Not used		
	4	Internet FAX Nighttime FAX mode setting <when Internet FAX product key is disabled>	Setting to determine whether or not to enter the minimum power consumption mode when the panel power SW is turned OFF. Enable only when the internet FAX product key is disable. "0": Enter the nighttime FAX mode "1": Do not enter the nighttime FAX mode This soft SW is disable (does not function) when the external calculation mode is enable. (SW92-6: Pseudo-nighttime mode setting <External calculation mode> functions.)	
	5	Not used		
	6	OSA Pseudo-nighttime mode setting <External calculation mode>	Setting to determine whether the minimum low power consumption mode is set when the panel power switched is turned OFF in the OSA external calculation mode. "0": Enter the pseudo-nighttime FAX mode (do not enter the nighttime mode) "1": Do not enter the pseudo-nighttime FAX mode (enter the nighttime mode) Enable only when the external calculation mode is ON. In the external calculation mode, the following soft switches are disable (do not function). SW92-4: Nighttime FAX mode setting <When the internet FAX product key is disable> SW92-5: Pseudo-nighttime FAX mode setting <When the internet FAX product key is enable>	
	7	Function Nighttime FAX mode setting <60W nighttime mode>	Setting to determine whether the FAX BOX power is not shut down when the panel power switch is turned OFF (In normal cases, it is notified in the F net, dial-in setting.) "0": Do not enter the pseudo-nighttime FAX mode (60W is not notified) "1": Enter the pseudo-nighttime FAX mode (60W is notified) Related soft SW: SW92-4: Nighttime FAX mode setting <when Internet FAX reception is disabled> SW92-5: Pseudo-nighttime mode setting <when Internet FAX reception is enabled> SW92-6: Pseudo-nighttime mode setting <External calculation mode> This soft SW is enable regardless of the external calculation mode.	
	8	Not used		

• **Nighttime FAX mode:**

<Power status>

Resident power ON
Sub power OFF
Main power OFF

<Power SW status>

Main power SW: ON
Panel power SW: OFF

<Function>

When CI (calling) signal is detected from the FAX line, power can be supplied to the machine and the FAX BOX.

• **Pseudo-nighttime mode:**

<Power status>

Resident power ON
Sub power ON
Main power ON

<Power SW status>

Main power SW: ON
Panel power SW: OFF or ON

Or

Power save mode (the power save key is pressed or in the auto power shut off state)
(Either case will provide the conditions for the pseudo-nighttime mode.)

<Function>

The power is supplied to the machine (including SCU/PCU) and the FAX BOX or the HDD, and the panel light is turned OFF.

Under this condition, the following operations except for FAX scanning can be performed:

- FAX/NWS send, FAX receive/internet FAX receive, printer data receive, network access, etc.

SW No.	Bit No.	Item	SW selection and function	System settings	
93	1	Function Background process when specifying the time	Setting to determine whether the secondary storage process in ScanToXXX (except for ScanToUSB) by specifying the time is performed in the background or in the foreground with "Processing" displayed on the operation panel. When the soft SW91-2 "Secondary storage background process inhibit in scanner send (other than USB)" is set to "1: Inhibit," the process is made in the foreground regardless of this setting. "0": Background process "1": Foreground process		
	2	Function Received data printing hold screen display setting	Setting to determine whether the print hold screen is displayed or not after entering the product key of the document service kit. This setting can be changed only in the simulation mode. "0": Enable (Displayed) "1": Disable (Not displayed)		
	3	Function Decode error process in printing the FAX/Internet FAX reception data	Setting of the process when a decode error occurs in printing the FAX/Internet FAX reception data. "0": Judged as E7-06 trouble. When a decode error is detected, it is judged as E7-06 trouble and printing is not completed. The image data of the decode error page are not deleted. • When the power is turned OFF/ON, the received data can be printed again. (In case of E7-06 error, however, manual transfer cannot be performed.) "1": Not judged as E7-06 trouble. The area after the line of decode error is printed as white data. It is not processed as a trouble.		
	4		Not used		
	5	-	FFL address book renewal time stamp check setting	Setting is made to select YES/NO of checking the synchronization of time stamps between the address book renewal time in the printer driver and that in the MFP in the function flow light (FFL) function. "0": Check is made. "1": Check is not made. * Since synchronization of renewal time stamps of the address books is made as a condition for the FFL function in order to prevent erroneous sending, this setting must be carefully made especially when changing.	
	6	Internet FAX	Setting of the 1W energy-save mode entering time when the POP3 confirmation function is enable.	Setting whether the machine enters the 1W energy-saving mode/1W nighttime mode according to the frequency confirmation time in the POP3 server frequency confirmation when the I-FAX function is ON. "0": 3 minutes "1": No limit In case of "0" above, if the POP3 server frequency confirmation time is within 3 minutes, the machine does not enter the 1W mode but enters the pseudo energy-saving mode. In case of "1", the machine enters the pseudo energy-saving mode regardless of the POP3 server frequency confirmation time. In addition, since the default of the POP3 server frequency confirmation time is 5 minutes, the machine enters the 1W mode under the normal conditions. In order to keep the machine in the pseudo energy-saving mode, perform either of the following two methods: • Change the POP3 server frequency confirmation timing to 3 minutes or less. • Change this SSW to "1."	
	7, 8		Not used		
94	1-8		Not used		

SW No.	Bit No.	Item	SW selection and function	System settings
95	1	Internet FAX Size selection for internet FAX reception	Setting is made to select "Paper individual setting" or "Paper combination setting" in I-FAX reception. "1": Paper individual setting (Follows SW95-2 - 6.) "0": Paper combination setting (Follows SW91-4 - 5.) (Default) * This soft SW is added according to requests from the market for combination of paper selection which is not available with SW91-4 and 5. Example: Print in B4 only	
	2-6	Internet FAX Size selection for internet FAX reception (Paper individual setting)	Setting is made to select whether each paper size is included as an option of the paper selection in the individual selection of paper when receiving I-FAX. "0": "Selected" → The paper size is included as an option of paper selection. "1": "Not selected" → The paper size is not included as an option of paper selection. Bit No.2: A5 size selection Bit No.3: B5 size selection Bit No.4: A4 size selection Bit No.5: B4 size selection Bit No.6: A3 size selection * This setting is valid when SW95-1 "Size selection for internet FAX reception" is set to "1: Paper individual setting". When, however, all of SW95-2 - 6 are set to "1: Not selected", SW95-1 functions as "0."	
	7	Function White paper skip confirmation Process after message time out	If the white paper skip function is set, when [START] button is pressed, the message is displayed confirming the document quantity actually scanned and that to be sent. This setting is made to select the job 60 sec after the above state. "1": The send job is performed. "0": The job is cancelled. (Default)	
	8	Function Process after time out of the document quantity count confirmation	If the document quantity count function is ON, when scanning is completed with the document feed unit, the message of the scanned document quantity is displayed. This setting is made to select the job 60 sec after the above state. "1": The send job is performed. "0" The job is canceled. (Default)	
96	1	Sequence setting of Time and Date added to the file name (Scanner/I-FAX)	Setting to determine the sequence of Year/Month/Day/Time if "Date & Time" is selected in File Naming setting when creating the file name of the scanned original with ScanToE-Mail/FTP/Desktop/SMB/USB/I-Fax. "0": Year/Month/Day/Time Fixed("YYYYMMDD_HHMMSS") (Default) "1": According to the format setting of Date & Time in System Settings e.g.: "YYYYMMDD_HHMMSS" (when 24-Hour is selected) "MMDDYYYY_HHMMSSPM" (when 12-Hour is selected)	
	2	Sequence setting of Time and Date added to the file name (InboundRouting)	Setting to determine the sequence of Year/Month/Day/Time if "Date & Time" is selected in File Naming setting when creating the file name of the original with InboundRouting. "0": Year/Month/Day/Time Fixed("YYYYMMDD_HHMMSS") (Default) "1": According to the format setting of Date & Time in System Settings e.g.: "YYYYMMDD_HHMMSS" (when 24-Hour is selected) "MMDDYYYY_HHMMSSPM" (when 12-Hour is selected)	
	3	Sequence setting of Time and Date added to the file name (Auto filling of received data)	Setting to determine the sequence of Year/Month/Day/Time if "Date & Time" is selected in File Naming setting when creating the file name of the original with Auto filling of received data. "0": Year/Month/Day/Time Fixed("YYYYMMDD_HHMMSS") (Default) "1": According to the format setting of Date & Time in System Settings e.g.: "YYYYMMDD_HHMMSS" (when 24-Hour is selected) "MMDDYYYY_HHMMSSPM" (when 12-Hour is selected)	
	4-8	Not used		
97 - 98	1-8	Not used		

System settings (Line/Other)

SW No.	Bit No.	Item		SW selection and function	System settings
99	1, 2	Calling	Tone/Pulse initial setting (Dial call signal setting)	This is set according to dial type. "00": 10PPS (pulse) "01": 20PPS "10": TONE "11": TONE Other than China/Thailand: If "20pps" is set, adopt the initial TONE.	FAX initial setting/ Setting
	3-6	Calling	Pause time setting (between dials)	This sets the time per pause inputted during dialling. The pause time can be set from 1 to 15 seconds in 1-second increments by binary inputting N over the range of 0 to 15 (1 second x N). If a value outside the setting range (or "0000") is set, the initial value of 2 seconds is reverted to.	FAX initial setting/ Adjustment value
	7, 8	Calling	PBX setting	Setting to determine whether or not to send out ID or Flash before dialing. Functions only in Germany and France. In other countries, this setting is fixed to "OFF". "00": OFF "01": Flash "10": ID "11": Not used (OFF) The setting other than the above would be granted as the default.	FAX initial setting
100	1-4	Calling	ID (number) setting <Input the 1st digit when dial inputting and dialing>	Conduct ID No. setting when the PBX function is valid. Valid when ID is set using SW99-7, 8. The initial value of 0 is reverted to if a value outside of the setting range (10 - 15) is set.	FAX initial setting
	5-8	Calling	ID (number) setting 2 <Input the 2nd digit when dial inputting and dialing>	Conduct ID No. setting when the PBX function is valid. Valid when ID is set using SW99-7, 8. When 10 - 12, 14, 15 are designated, do not use numbers with those digits. "-" when 13 is set.	FAX initial setting
101	1-4	Calling	ID (number) setting 3 <Input the 3rd digit when dial inputting and dialing>	Conduct ID No. setting when the PBX function is valid. Valid when ID is set using SW99-7, 8. When 10 - 12, 14, 15 are designated, do not use numbers with those digits. "-" when 13 is set.	FAX initial setting
	5-8	Call arrival	Distinctive ring (DRD setting)	Setting to determine whether or not to execute FAX arrival call by the distinctive ring. Even if a call signal other than the set pattern is detected, there will be no automatic arrival call. "0000": OFF "0001": STANDARD "1000": Pattern 1 "0100": Pattern 2 "1100": Pattern 3 "0010": Pattern 4 "1010": Pattern 5 "0110": ON (Australia) "1110": ON (New Zealand) "1001": ON (Hong Kong) When contents other than the above are set, the initial value is reverted to.	FAX initial setting/ Setting
102	1		Not used		
	2-5	Call arrival	Setting of the number of automatic reception calls	Set the number of call sounds until the start of receiving (holding of the line) when automatic reception is set. This can be set from 0 to 15 (Europe/Indonesia/Thailand: 0 to 9, Australia/New Zealand: 2 to 4) times by binary inputting. If 0 is set, the call sound will not be sounded. (However, this does not include the nighttime FAX mode.)	FAX reception setting/ Setting
	6	Call arrival	Setting for changing over to automatic reception during manual reception	Setting to determine whether or not to initiate automatic reception after the ringer sounds a certain number of times when manual reception is set. "0": Prohibited (do not changeover) "1": Permitted (changeover)	FAX reception setting/ Setting
	7, 8		Not used		

SW No.	Bit No.	Item		SW selection and function	System settings
103	1-5	Call arrival	Setting of the number of calls for changing over from manual to automatic reception	Set the number of calls before changing over to automatic reception when in the manual reception mode. Functions only in France. This functions when the "Setting for changing over to automatic reception during manual reception" (SW102-6) is valid. Setting can be made over the range of 1 to 9 times in 1 time increments by binary inputting. The initial value is reverted to if a value outside of the setting range is set.	FAX reception setting/ Setting
	6	Communication	ECM (valid except during V.34: reflected in the V.21 DIS/DCS/ DTC)	Setting to determine whether or not to execute the error re-send mode. However, this is only valid when communication is other than V.34. "0": Yes. Set with ECM function. "1": No. Set with no ECM function. ECM is on during communication in the V.34 mode.	FAX initial setting
	7		Not used		
	8	Function	Image quality setting when saving (FAX)	Setting to determine whether or not to make filed image quality valid (initial setting for image quality selection when transmitting filed document files by FAX) "0": Do not apply "1": Apply	Operation setting
104	1-4	Function	Image quality priority selection (standard image quality setting)	Setting to determine the initial setting for image quality selection when reading documents on the FAX. "0000": Ordinary lettering "0001": Small lettering "0010": Fine "0011": Very fine "0101": Small lettering, medium tone "0110": Fine, medium tone "0111": Very fine, medium tone "Ordinary lettering" (initial value) is reverted to if a value outside of the setting range is set.	Operation setting
	5	Function	Received data printing hold (FAX/Internet FAX)	Setting to determine whether or not to store data received by FAX/Internet FAX in the memory without outputting it. "0": Do not hold "1": Hold	Operation setting
	6	Function	Saving the setting contents for a certain period after completion of scanning	Setting to determine whether the set values of the destination and various functions are saved without returning to the default values or not when reservation is completed on the image send screen. "0": The set values are not saved. "1": The set values are saved.	Operation setting
	7		Reception Indicator Setting	Setting to determine whether or not the FAX reception lamp should be turned ON regardless of Energy Save mode (Power switch of controller is ON) or the normal mode if FAX/I-FAX received data is in the memory (not output) or FAX/I-FAX received data is output to the right delivery tray. Fax reception lamp is not ON in 1W (Nighttime FAX mode) as before. "0": Reception lamp Disable "1": Reception lamp Enable	
	8	Function	Default finish stamp setting	Setting to determine whether the finish stamp is used or not after completion of document scan when the document feed unit is used. "0": NO (The finish stamp is not used.) "1": YES (The finish stamp is used.)	Operation setting
105	1-4	Function	Speaker volume when on-hook (Speaker volume during DTMF sending)	This sets speaker volume for when the on-hook button is pushed. The sound volume is set with a value. The greater the value is, the greater the sound volume is. Setting range is 1 (small) to 15 (large) by binary input. When it is set to "0," it is considered as setting to the default.	FAX initial setting
	5-8	Function	Call sound volume	Irrespective of whether there is a handset, this sets the volume of the call sound that is sounded when a signal arrives. The sound volume is set with a value. The greater the value is, the greater the sound volume is. Setting range is 1 (small) to 15 (large) by binary input. When it is set to "0," there is no sound (OFF).	FAX initial setting
106	1-4	Function	Line monitor volume setting	Set the speaker volume during line monitoring. The sound volume is set with a value. The greater the value is, the greater the sound volume is. Setting range is 1 (small) to 15 (large) by binary input. When it is set to "0," there is no sound (OFF).	FAX initial setting
	5-8	Function	Volume of the transmission completion sound (Volume of the successful transmission sound)	Set the volume of the completion sound outputted from the speaker upon completion of FAX transmission. When sending is succeeded, a sound is generated by this setting. The sound volume is set with a value. The greater the value is, the greater the sound volume is. Setting range is 1 (small) to 15 (large) by binary input. When it is set to "0," there is no sound (OFF).	FAX initial setting

SW No.	Bit No.	Item		SW selection and function	System settings
107	1-4	Function	Volume of the communication error completion sound (Volume of the transmission and reception error sound)	This sets the volume of the completion sound outputted from the speaker upon completion of FAX communication error. The sound volume is set with a value. The greater the value is, the greater the sound volume is. Setting range is 1 (small) to 15 (large) by binary input. When it is set to "0," there is no sound (OFF).	FAX initial setting
	5-8	Function	Volume of the reception completion sound (Volume of the reception completion sound)	This sets the volume of the completion sound outputted from the speaker upon completion of FAX reception. When receiving is succeeded, a sound is generated by this setting. The sound volume is set with a value. The greater the value is, the greater the sound volume is. Setting range is 1 (small) to 15 (large) by binary input. When it is set to "0," there is no sound (OFF).	FAX initial setting
108	1, 2	Function	Tone of the successful transmission sound	This sets the tone sounded when transmission is successful. "00": Pattern 1 (550Hz) "01": Pattern 2 (750Hz) "10": Pattern 3 (1000Hz) "11": Pattern 4 (1700Hz)	FAX initial setting
	3, 4	Function	Tone of the transmission and reception error sound	This sets the tone sounded when there is a transmission and reception error. "00": Pattern 1 (550Hz) "01": Pattern 2 (750Hz) "10": Pattern 3 (1000Hz) "11": Pattern 4 (1700Hz)	FAX initial setting
	5, 6	Function	Tone of the reception sound	This sets the tone sounded upon completion of reception. "00": Pattern 1 (550Hz) "01": Pattern 2 (750Hz) "10": Pattern 3 (1000Hz) "11": Pattern 4 (1700Hz)	FAX initial setting
	7	Function	Auto startup mode	In the case where FAX or Internet FAX is received during nighttime mode or simulated mode, if this setting is ON, the received document will be outputted when the machine becomes able to output. When OFF, the machine will receive the data by proxy without outputting the document, but it will output the received document when the panel power SW is ON. "0": Setting (setting for automatically starting up the main unit and outputting) "1": Release (setting for storing in the memory without starting up the main unit)	FAX initial setting
	8	Function	Digital line net setting	When this is set to "1: ON", "-15dBm" is set regardless of the soft switch setting in the signal send level on the FAXBOX side.	FAX initial setting
109	1-3	Function	Setting of the successful transmission sound time	This sets the time the tone is sounded when transmission is successful. "000": 2.0 seconds "001": 2.5 seconds "010": 3.0 seconds "011": 3.5 seconds "100": 4.0 seconds The initial value is reverted to if a value outside of the setting range is set.	FAX initial setting
	4-6	Function	Setting of the reception sound time	This sets the time the tone is sounded upon completion of reception. "000": 2.0 seconds "001": 2.5 seconds "010": 3.0 seconds "011": 3.5 seconds "100": 4.0 seconds The initial value is reverted to if a value outside of the setting range is set.	FAX initial setting
	7	Function	Setting of the time of the transmission/reception error sound	Transmission error sound sounding interval "0": Every 0.3 seconds "1": Every 0.7 seconds Sounding time and paper feeding time are the same.	FAX initial setting
	8		Not used		

SW No.	Bit No.	Item	SW selection and function	System settings
110	1, 2	Print Communication results sheet print settings (for ordinary transmission) <FAX only>	This sets outputting of the communication results sheet following transmission (excluding successive broadcast, successive polling and relay broadcast transmission). "00": Do not print "01": Always print "10": At times of transmission failure The initial value is reverted to if a value outside of the setting range is set.	FAX initial setting
	3, 4	Print Setting of the communication results sheet printing (at times of broadcast transmission)	This sets outputting of the communication results sheet at times of successive broadcast, successive polling and relay broadcast transmission. "00": Do not print "01": Always print "10": Failed transmission address The initial value is reverted to if a value outside of the setting range is set.	FAX initial setting
	5, 6	Print Communication results sheet print setting (when receiving) <FAX only>	This sets outputting of the communication results sheet for when communications are received (excluding confidential communications). "00": Do not print "01": Always print "10": At times of error The initial value is reverted to if a value outside of the setting range is set.	FAX initial setting
	7	Print Report output (when receiving confidential communications) <FAX only>	Setting to determine whether or not to output the communication results sheet (receiving) when confidential communications are received. "0": Print "1": Do not print This only functions when the communication results sheet print setting (receiving) is set to be outputted.	FAX initial setting
	8		Not used	
111	1, 2	Print Print document contents when transmitting (results sheet) <FAX only>	Setting to determine whether or not to print part of the transmitted document on the communication results sheet (transmission) when FAX transmission error occurs. "00": Do not print "01": Always print "10": At times of error The initial value is reverted to if a value outside of the setting range is set. This functions when the communication results sheet print setting (ordinary transmission) (broadcast transmission) is set to be outputted.	FAX initial setting
	3	Print Automatic printing of the record sheet when memory is full.	Setting to determine whether or not to automatically output the communication record sheet when transmitted and received data on the FAX/Internet FAX communication record sheet reach 200 entries. "0": No (do not output) "1": Yes (automatically output) If the data are not outputted, then new data are written over the previous data starting from the oldest of the 200 entries. Trigger printing of 200 entries.	FAX initial setting
	4-8	Print Printing of the communication record sheet at a designated time (hours)	Set the hours part of the designated time (hours and minutes) for outputting the communication record sheet. Setting can be made over the range of 0 to 23 (hours) in 1-hour increments by binary inputting. The initial value of 0 hour is reverted to if a value outside of the setting range is set.	FAX initial setting
112	1-6	Print Printing of the communication record sheet at a designated time (minutes)	Set the minutes part of the designated time (hours and minutes) for outputting the communication record sheet. Setting can be made over the range of 0 to 59 (minutes) in 1-minute increments by binary inputting. The initial value of 0 minute is reverted to if a value outside of the setting range is set.	FAX initial setting
	7	Print Printing of the communication record sheet at a designated time	Setting to determine whether or not to output the communication record sheet at a designated time. "1": Output the communication record sheet at a designated time "0": Do not output the communication record sheet at a designated time. Even if designated time printing is set, do not output when the designated time coincides with the nighttime FAX mode.	FAX initial setting
	8		Not used	
113	1-8	Reception Remote changeover number setting	Set by binary inputting the number for receiving remote changeover from external telephones. However, the remote changeover number is "XX*" with * fixed. Adopt * when "A" is inputted. Adopt # when "B" is inputted. For bits 1-4, fix the upper digit of the remote changeover number. (0-F) For bits 5-8, fix the second lowest digit of the remote changeover number. (0-F) When C-F are set, the initial value is reverted to.	FAX initial setting

SW No.	Bit No.	Item		SW selection and function	System settings
114	1, 2		Not used		
	3	Call arrival	FAX destination check function	Function to check the FAX destination in order not to send a FAX to an erroneous destination caused by operation mistake, etc. "0": Disable "1": Enable	FAX initial setting
	4-7		Not used		
	8	Communication	External telephone connection	Setting to determine whether or not to use an external telephone. If "Yes" is not set using this switch, an external telephone cannot be used. "0": No (invalid) "1": Yes (valid) The user cannot set without an external telephone.	FAX initial setting
115	1-7		Not used		
	8	Transmission	Sender's name adding function	Setting is made whether the sender's number in the sender print is changed to the receiver's name or not. When it is set to the receiver's name, if the address is set by the one-touch key, the key name of the address is printed in the sender print section. If it is not by the one-touch key (including automatic reversing with interface), print is not made (blank). "0": Sender's number (Default) "1": Receiver's name * The format of the added receiver's name is ">>Receiver's name (one-touch key name)."	FAX initial setting
116	1	Transmission	Automatic reduced transmission	In cases where the transmitted document size (width) is larger than the FAX paper size (width) of the other party's machine, this setting determines whether to reduce the transmitted document or to cut off both edges. "0": Transmit in reduced size "1": Do not transmit in reduced size	FAX transmission setting
	2	Transmission	Rotated transmission selection (A4 → A4R)	Rotated transmission or not depending on orientation of the document. When transmitting A4 document, this setting determines whether to transmit as A3 width (A4) or to rotate the read image and transmit as A4 width (A4R). "0": Rotate "1": Do not rotate	FAX transmission setting
	3	Transmission	Rotated transmission selection (B5R → B5)	Rotated transmission or not depending on orientation of the document. When transmitting B5R document, this setting determines whether to transmit as A4 width (B5R) or to rotate the read image and transmit as B4 width (B5). "0": Rotate "1": Do not rotate	FAX transmission setting
	4	Transmission	Rotated transmission selection (A5R → A5)	Rotated transmission or not depending on orientation of the document. When transmitting A5R document, this setting determines whether to transmit as A4 width (A5R) or to rotate the read image and transmit as A4 width (A5). "0": Rotate "1": Do not rotate	FAX transmission setting
	5	Transmission	Rotated transmission selection (8.5 x 11 → 8.5 x 11R)	Rotated transmission or not depending on orientation of the document. When transmitting 8.5 x 11 (LTR) document, this setting determines whether to transmit as A3 width (8.5 x 11) or to rotate the read image and transmit as A4 width (8.5 x 11R). "0": Rotate "1": Do not rotate	FAX transmission setting
	6	Transmission	Rotated transmission selection (16K → 16KR)	Rotated transmission or not depending on orientation of the document (16K ≒ A4). When transmitting 16K document, this setting determines whether to transmit as A3 width (16K) or to rotate the read image and transmit as A4 width (16KR). "0": Rotate "1": Do not rotate	FAX transmission setting
	7	Transmission	Rotated transmission selection (5.5 x 8.5R → 5.5 x 8.5)	Rotated transmission or not depending on orientation of the document (INVOICE ≒ A5). When transmitting 5.5 x 8.5R (INVOICE-R) document, this setting determines whether to transmit as A4 width (5.5 x 8.5R) or to rotate the read image and transmit as A4 width (5.5 x 8.5). "0": Rotate "1": Do not rotate	FAX transmission setting
	8	Transmission	Page number printing	Setting to determine whether or not to apply the page number (page number/total pages in cases of memory transmission) in the area for printing date and source. "0": Apply "1": Do not apply	FAX transmission setting

SW No.	Bit No.	Item		SW selection and function	System settings
117	1	Transmission	Designation of date and source printing position	Set the position for applying the date and transmission source on the top of the document when transmitting it. "0": Outside of document (outside of send data) "1": Inside of document (inside of send data)	FAX transmission setting
	2	Transmission	Quick online/Memory transmission changeover (quick online transmission)	Setting to determine whether to put transmission into the quick online transmission mode or the memory transmission mode. "0": Quick online transmission "1": Memory transmission	FAX transmission setting
	3	Transmission	Designation of date and source printing	Set whether or not to apply the date and transmission source on the top of the document when transmitting it. "0": Apply "1": Not apply Not functionable in North America (always applied).	FAX transmission setting
	4	Transmission	Re-call permitted when busy	Set to re-call when the other party of a transmission is busy or does not call in. "0": Prohibited "1": Permitted	FAX transmission setting
	5-8	Transmission	Number of re-calls when busy	Set the number of re-calls to be made when the other party of a transmission is busy or does not call in. This can be set from 1 to 14 (Taiwan: 1 to 15, Australia/New Zealand/Singapore: 1 to 9, U.K./France/Germany/Sweden/Russia/South Africa: 1 to 10, Indonesia: 1 to 5, China: 1 to 3) times by binary inputting. Number of recalls: Setting x once The initial value is reverted to if a value outside of the setting range is set.	FAX transmission setting
118	1-4	Transmission	Interval between re-calls when busy	Set the interval until the next re-call when the line is busy during transmission. This can be set from 1 to 15 (Taiwan/Indonesia: 4 to 15) minutes in 1-minute increments by binary inputting. Re-call interval: Set value x 1 minute The initial value is reverted to if a value outside of the setting range is set.	FAX transmission setting
	5-8	Transmission	Number of re-calls at times of communication error	Set the number of re-calls to be made when a communication error occurs during transmission. This can be set from 1 (Taiwan: 1 to 15, U.K./France/Germany/Sweden/Indonesia/Middle East/Russia/South Africa: 1 to 5, China: 1 to 3, Malaysia/India: 1 to 9) times by binary inputting. Number of recalls: Setting x once The initial value is reverted to if a value outside of the setting range is set.	FAX transmission setting
119	1-4	Transmission	Re-call interval at times of communication error	Set the interval until the next re-call when communication error occurs. This can be set from 1 to 15 (Taiwan, Indonesia: 4 to 15) minutes in 1-minute increments by binary inputting. Number of recalls: Setting x once The initial value is reverted to if a value outside of the setting range is set.	FAX transmission setting/ Adjustment value
	5	Transmission	Re-call permitted at times of communication error	Set whether or not to re-call when a communication error occurs during transmission. "0": Prohibited "1": Permitted	FAX transmission setting
	6, 7	Reception	Reception mode setting	Setting to determine whether to put the reception mode into automatic or manual. (Do not set manual reception when the handset or external telephone are not connected. However, setting is possible and reception can be performed by means of the on-hook key). In the manual reception mode, when the nighttime FAX mode is ON, the machine is activated but no calls arrive. Even if the external telephone setting is not made, answerphone connection can be set from the soft SW. "00": Automatic reception "01": Manual reception "10": Answerphone connection The initial value is reverted to if a value outside of the setting range is set. Setting can be made even without the external telephone and handset.	Reception/ forwarding setting
	8		Not used		

SW No.	Bit No.	Item		SW selection and function	System settings
120	1, 2	Reception	Specified number reception Enable/Disable setting (FAX)	Setting to determine Enable/Disable of the specified number reception (FAX). However, only valid during automatic reception. "00": All Disable "01": Reception Enable "10": Reception Disable "11": All Disable However, implement using a separate SW (Setting to refuse reception at times of manual reception (FAX)) when receiving manually.	FAX reception setting
	3	Function	Automatic reduced printing to fixed sizes	If a size in excess of the valid printing area is received, this setting determines whether or not to automatically reduce size. If size is not reduced, the excessive area is discarded without being printed. "0": Reduce "1": Do not reduce (discard) The reduction factor is set using the separate SW (Magnification setting in automatic reduction).	FAX reception setting
	4	Function	Setting to reduce and discard when printing A3-11 x 17 (reduced printing setting when receiving A3)	Setting to determine whether to reduce to 11 x 17 inch size sheet or to print without reducing in cases of receiving A3 wide document when 11 x 17 inch size sheet is set. "0": Reduce "1": Do not reduce (discard) When not reducing, the area that cannot be printed is scrapped. When set to "Reduce," the overall data are reduced to 94%.	FAX reception setting
	5	Function	Reduced print setting when receiving letters.	Setting to determine whether to reduce to A4 size sheet or to print without reducing in cases of receiving 8.5 x 11 (LTR) when A4 size sheet is set. "0": Reduce "1": Do not reduce (discard) When not reducing, the area that cannot be printed is scrapped. When set to "Reduce," the overall data are reduced to 94%.	FAX reception setting
	6	Print	Double-faced printing of received data (double-faced reception setting)	Setting to determine whether received data are printed on both sides. "0": Double-faced printing prohibited "1": Double-faced printing permitted	FAX reception setting
	7, 8	Print	Setting of received data print conditions	Setting for selecting the optimum sheet when printing data received by FAX. "00": Equal magnification/Reduction permitted "01": Equal magnification (division/reduction prohibited) "10": Equal magnification/Division permitted The initial value is reverted to if a value outside of the setting range is set. Setting for selecting the optimum sheet when printing data received.	FAX reception setting
121	1, 2		Not used		
	3	Print	Staple setting	Set to determine whether or not to staple when outputting received FAX data. "0": No "1": Yes	Device setting
	4, 5	Print	Staple position	With the finisher attached, set the staple position for when conducting stable output of FAX printed data. "00": Rear 1 point "01": Front 1 point "10": Center 2 points "11": Staple free staple	Device setting
	6		Not used		
	7, 8	Print	Selection of delivered sheet size	Sheet size setting when conducting stable output of FAX/Internet FAX printed data with the finisher attached. "00": A4 or A3 (8.5 x 11 or 11 x 17) "01": B5 or B4 (8.5 x 11 or 8.5 x 14) "10": A4 (8.5 x 11) "11": A4R (8.5 x 11R)	FAX reception setting
122	1	Transmission	Polling protection	Set to determine whether or not to execute protection when the other party requests polling. "0": Protect "1": Do not protect When the protection setting is selected and a request for polling is received from the other party's machine, bulletin board transmission is conducted if the source number of the other party coincides with the number permitted for polling. When the setting not to protect is selected, bulletin board transmission is executed regardless of the source number of the other party.	Polling protection setting
	2-8		Not used		
123 - 127	1-8		Not used		

SW No.	Bit No.	Item		SW selection and function	System settings
128	1-3		Not used		
	4	Internet FAX	Setting of the internet FAX mail content (Footer)	Setting to determine whether the mail footer registered from the web is added to the content or not in sending the internet FAX. "0": The footer is not added. "1": The footer is added.	Internet FAX initial setting
	5	Internet FAX	Internet FAX coding system priority selection (Coding system for manual input) (Coding system for one-touch registration)	The standard compression system for sending operation of internet FAX can be set. "0": MH (G3) "1": MMR (G4) * The compression system for address registration is fixed to "MH (G3)" and is not linked with this item. This item is linked with the system setting, the FAX, the image send setting, the internet FAX setting, and "the standard compression system setting" of the internet FAX initial setting.	Internet FAX initial setting
	6	Internet FAX	Processing at times of mail reception (when the Content-X-CIAJWNETFAX field is not yet received)	Setting to determine whether or not to print the mail text in cases where there is no "CONTENT-X-CIAJWNETFAX" in the mail field when mail is received by Internet FAX. "0": Do not print mail letters "1": Print the main text of mails Exclude confirmed sent mails	Internet FAX reception setting
	7	Internet FAX	Setting of reduced printing when receiving A3 by Internet FAX	Setting to determine whether or not to print reduced to 11 x 17 inch sheet size when receiving A3 width documents when 11 x 17 inch size sheet is set in Internet FAX reception. "0": Reduce "1": Do not reduce (discard) When not reducing, the area that cannot be printed is scrapped. Reduce the overall document to 94% when conducting reduced printing.	Internet FAX reception setting
	8	Internet FAX	Setting of reduced printing when receiving letters by Internet FAX	Setting to determine whether or not to print reduced to A4 size sheet when receiving 8.5 x 11 (letter) size documents when A4 size sheet is set in Internet FAX reception. "0": Reduce "1": Do not reduce (discard) Reduce the overall document to 94% when conducting reduced printing.	Internet FAX reception setting
129	1	Scanner	Setting of the mail content in E-Mail sending (Footer)	Setting to determine whether the mail footer registered from the web is added to the content or not in sending the Scan to E-Mail. "0": The footer is not added. "1": The footer is added.	E-mail setting
	2	Scanner	Setting of transmitted data upper limit value (FTP/desktop/shared folder)	When transmitting to FTP, desktop or a shared folder, this setting determines whether or not to stop transmission of data as over the upper limit if the image data size of 1 job is found to be in excess of the value set for the "transmitted data upper limit (FTP/desktop/shared folder)." "0": OFF "1": ON	Scanner setting
	3, 4	Scanner	Transmitted data upper limit (FTP/desktop/shared folder)	This sets the upper limit for image data size in 1 job in cases where the transmitted data upper limit (FTP/desktop/shared folder) is set at "ON." "00": 50Mbyte "01": 150Mbyte "10": 300Mbyte The initial value is reverted to if a value outside of the setting range is set.	Scanner setting
	5-8		Not used		
130	1-5		Not used		
	6		Maintaining of the history of Image Sending Activity Report	On the printing contents in Image Sending Activity Report, the history is originally never printed again once it is printed out. However, the latest 50 histories including the one that has been printed once will be printed when this feature is enabled. "0": Original operation (History which has been printed once will never be printed.) "1": Latest 50 histories including the one that has been printed once will be printed.	
	7, 8		Not used		
131 - 138	1-8		Not used		

SW No.	Bit No.	Item	SW selection and function	System settings
139	1-8	Fax Output Tray Setting (Line 1)	Setting to determine the delivery tray for the output destination of FAX data received at Line1: 0: Center tray 1: Right tray 2: Finisher lower tray 3: Finisher upper tray 4: Finisher middle tray 5: Off-set tray 6: Top tray 7: Stacker top tray 8: Stacker top (expanded) tray 9: Stacker tray 10: Stacker (expanded) tray 11: Job separator (Upper tray) The initial value is reverted to if a value outside of the setting range is set.	
140 - 150	1-8	Not used		

2. Fax software switch initial value list

SW No.	Bit No.							
	1	2	3	4	5	6	7	8
1	1	0	1	1	0	1	0	1
2	1	0	1	1	0	1	0	0
3	0	0	0	0	0	0	0	0
4	1	0	0	0	0	1	1	1
5	0	1	0	1	0	0	0	0
6	1	0	0	0	0	0	0	0
7	0	1	1	1	1	0	0	0
8	0	1	0	1	1	0	0	1
9	0	0	1	1	0	0	1	0
10	0	0	1	0	0	0	1	1
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	1	1	0	0	0	0
16	0	0	0	0	0	0	0	0
17	0	1	1	0	0	0	0	0
18	0	0	0	0	0	1	1	1
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	1	0	1
21	1	0	1	0	0	0	0	0
22	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0
24	0	0	0	0	1	0	1	1
25	0	0	1	0	0	1	0	0
26	0	0	0	0	0	0	0	0
27	0	0	1	0	0	0	1	1
28	1	1	1	1	1	1	0	0
29	0	0	1	0	0	0	0	0
30	0	1	0	1	0	1	0	0
31	0	0	0	1	0	0	0	0
32	1	1	0	0	0	0	0	1
33	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	1	0
37	0	0	0	0	0	0	0	0
38	0	1	0	1	0	0	0	0
39	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	1	1
41	1	1	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0
46	0	0	0	0	1	0	1	1
47	0	1	0	0	0	0	0	0
48	0	0	0	0	1	0	0	0
49	0	1	1	1	0	1	0	1
50	1	0	0	0	0	0	0	0
51	0	1	1	1	1	0	0	0
52	0	1	0	1	1	0	0	0
53	1	0	0	0	1	0	0	0
54	0	0	1	1	0	0	0	0
55	0	0	0	0	0	0	0	0
56	0	1	1	0	0	0	0	0
57	0	0	0	0	0	1	1	1
58	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0
60	0	0	0	0	1	0	1	1
61	0	0	0	0	0	0	0	0
62	1	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0
68	0	0	0	0	1	0	1	1

SW No.	Bit No.							
	1	2	3	4	5	6	7	8
69	0	1	0	0	0	0	0	0
70	0	0	0	0	1	0	0	0
71	0	1	1	1	0	1	0	1
72	1	0	0	0	0	0	0	0
73	0	1	1	1	1	0	0	0
74	0	1	0	1	1	0	0	0
75	1	0	0	0	1	0	0	0
76	0	0	1	1	0	0	0	0
77	0	0	0	0	0	0	0	0
78	0	1	1	0	0	0	0	0
79	0	0	0	0	0	1	1	1
80	0	0	0	0	0	0	0	0
81	0	0	0	0	0	0	0	0
82	0	0	0	0	1	0	1	1
83	0	0	0	0	0	0	0	0
84	1	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0
86	0	0	0	0	0	0	0	0
87	0	0	0	0	0	0	0	0
88	0	0	0	0	0	0	0	0
89	0	0	0	0	0	0	0	0
90	0	0	1	1	0	1	0	0
91	0	0	0	0	0	1	1	1
92	0	0	0	0	0	0	0	0
93	0	0	0	0	0	0	0	0
94	0	0	0	1	1	1	1	0
95	0	0	0	0	0	0	0	0
96	0	0	0	0	0	0	0	0
97	0	0	0	0	0	0	0	0
98	0	0	0	0	0	0	0	0
99	1	0	0	0	1	0	0	0
100	0	0	0	0	1	1	0	1
101	1	1	0	1	0	0	0	0
102	1	0	0	1	0	0	0	0
103	0	1	0	0	0	0	1	0
104	0	0	0	0	0	0	1	0
105	0	1	0	1	0	0	1	1
106	0	0	0	0	0	0	1	1
107	0	0	1	1	0	0	1	1
108	1	0	1	0	1	0	0	0
109	0	1	0	0	1	0	0	0
110	1	0	0	1	0	0	0	0
111	1	0	0	0	0	0	0	0
112	0	0	0	0	0	0	0	0
113	0	1	0	1	1	0	1	0
114	0	0	0	0	1	1	0	1
115	0	1	0	0	0	0	0	0
116	0	0	0	0	0	0	0	0
117	0	0	0	1	0	0	1	0
118	0	0	1	1	0	0	0	1
119	0	0	1	1	1	0	0	0
120	0	0	0	1	1	0	0	0
121	0	0	0	0	0	0	0	0
122	0	1	0	0	0	1	0	0
123	0	0	1	0	0	0	0	0
124	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	1	1
126	0	0	0	0	1	0	1	0
127	1	0	0	1	0	0	1	0
128	0	0	0	0	0	0	1	1
129	0	0	0	1	0	0	0	0
130	1	0	0	0	0	0	0	0
131	0	0	0	0	0	0	0	0
132	1	0	0	0	1	0	0	0
133	0	0	1	0	0	0	0	0
134	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	1	1
136	0	0	0	0	1	0	1	0
137	1	0	0	1	0	0	1	0
138	0	0	0	0	0	0	0	0

SW No.	Bit No.							
	1	2	3	4	5	6	7	8
139	0	0	0	0	1	0	1	1
140	0	0	0	0	1	0	1	1
141	0	0	0	0	1	0	1	1
142	0	0	0	0	0	0	0	0
143	0	0	0	0	0	0	0	0
144	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0
146	0	0	0	0	0	0	0	0
147	0	0	0	0	0	0	0	0
148	0	0	0	0	0	0	0	0
149	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0

[3] TROUBLE CODE

1. Image send communication report code

A. Outline and code system descriptions

After completion of communication, the communication report table, the communication management table, and the protocol are described on the communication report column.

The communication report code is composed as follows:

Communication report: XX (XXXX)

The upper 2 digits of the communication report code:

Communication report code of 00 – 99 (Refer to communication report main code.)

The lower 4 digits of the communication report code:

Used by the serviceman.

The upper 2 digits: Communication report sub code 1 (Refer to communication report sub code 1.)

The lower 2 digits: Communication report sub code 2 (Refer to communication report sub code 2.)

Important

The communication report sub code 1 and sub code 2 are in hexadecimal notation. (The others are in decimal notation.)

Important

The communication report sub code 1 is not used in the these models.

B. Details

(1) Communication report main code

Report code	Final receive signal (Send side)	Final receive signal (Receive side)
0	Abnormal signal	Abnormal signal
1	NSF, DIS	(SID), (SUB), NSS, DCS
2	CFR	(PWD), (SEP), NSC, DTC
3	FTT	EOP
4	MCF	EOM
5	PIP, PIN	MPS
6	RTN, RTP	PRI-Q
7	No signal, DCN	DCN
8	PPR	PPS-EOP
9		PPS-EOM
10		PPS-MPS, PPS-NULL
11	RNR	RR
12	CTR	CTC
13	ERR	EOR-Q
14		PPS-PRI-Q
16	Abnormal signal	Abnormal signal
17	NSF, DIS	SID, SUB, NSS, DCS
18	CFR	PWD, SEP, NSC, DTC
19	FTT	PPS-EOP
20	MCF	PPS-EOM
21	PIP, PIN	PPS-MPS, PPS-NULL
22	RTN, RTP	PRI-Q
23	No signal, DCN	DCN
24	PPR	
25	RNR	RR
26	CTR	CTC
27	ERR	EOR-Q
28		PPS-PRI-Q
29	V.8 Phase-1	V.8 Phase-1
30	V.8 Phase-2	V.8 Phase-2
31	V.8 Phase-3	V.8 Phase-3

Important

For report codes 16 – 31, V.34 MODE COMMUNICATION.

Report code (Communication result)	Display in the column of result	Content of communication interruption
0 – 31	Refer to "previous table".	Depends on the point of communication interruption. For 16 or later, V.34 mode communication.
33	BUSY	The calling side cannot establish connection with the remote party.
34	CANCEL	A communication interruption command is made during sending/receiving. The interruption key is pressed for interruption of input. <Send/Receive/Polling/Bulletin board>
35	NG35 XXXX	Power is failed during sending/receiving. <Send/Receive/Polling/Bulletin board>
36	(No record paper)	
37	(Record paper jam)	
38	MEM. FULL	Memory over during reception. <Receive/Polling> Print is not made during reception in acting reception inhibit. <Receive/Polling>
39	(Number of paper unmatched)	
40	(Relay not received)	
41	LENGTH OVER	The send data length of one page exceeds the limit (2m) in sending. <Send/Bulletin board>
42	LENGTH OVER	The receive data length of one page exceeds the limit. <Receive/Polling>
43	(Communication) (OK)	Speaking before data transmission
44	ORIGINAL ERROR	A document jam occurs in direct sending. <Send>
45	(Picture quality error)	
46	NO RESPONSE	The FAX signal from the remote party is not detected within T1 time. <Send/Polling> (When in recall, however, the recall setting in case of a communication error is valid.)
47	TX DECODE ERROR	A decode error occurs in the FAX board. <Send/Bulletin board>
48	OK	Normal end of communication
	OK REPLY RECEIVE	OK in Internet FAX send with reception confirmation.
49	NO RX POLL	The called side does not have polling function in polling reception. <Polling> The called side has no data to send. <Polling>
50	RX POLL FAIL	In polling reception, DCN is received for DTC. <Polling> In polling sending, there is no send data. <Bulletin board>
51	PASS # NG	In polling sending, the allow number is not matched. <Bulletin board> In polling sending, the system number is not matched. <Bulletin board>
52	(No confidential function in remote party)	In confidential sending, the remote party does not have confidential function. <Send> (Including other company's machines) 1) The NSF signal has not "Confidential function" bit. 2) The NSF is not a Sharp machine.
53	(Confidential not received)	1) In confidential sending, DCN is received for NSS. <Send>
54	(Confidential BOX NO NG)	1) In confidential reception, a confidential box number which is not registered is specified.
55	(No relay function in remote party)	In relay command sending, the remote machine has no relay function. <Send> (Including other company's machine) 1) The NSF signal has not "Confidential function" bit. 2) The NSF is not a Sharp machine.
56	NO REL RX	1) In relay command sending, DCN is received for NSS. <Send> 2) In relay command reception, a remote station number which is not registered is specified. <Receive> 3) In F code relay broadcasting, an F code relay command is received. <Receive>
57	(Relay ID unmatched)	1) In relay command reception, the relay ID does not match. <Receive>
58	REJECTED	In reception, data are sent from a remote machine of receive inhibit number. <Receive> (Not rejected in the bulletin board send or the F code bulletin board send.)
59	RX NO F-CODE POLL	In F code polling (calling), the remote machine has no DIS bit 47 (polling function). <Polling> In F code polling (calling), the called side has no send data. (DIS bit 9 is 0.) <Polling>
60	NO F-CODE POLL	In F code polling (calling), DCN is received for SEP. <Polling> In bulletin board, there is no send data for SEP. <Bulletin board>
61	RX POLL # NG	In bulletin board, the sub address (bulletin board number (SEP)) is not matched. <Bulletin board>
62	F POLL PASS # NG	In bulleting board, the pass code (PWD) is not matched. <Bulletin board>
63	NO F FUNC	In F code sending, the remote machine has no DIS bit 49 (sub address function). <Send> (Check that the remote machine conforms to F code.)
64	NO F-CODE	In F code sending : <Send> 1) DCN is received for SUB. --- Check the box number. 2) DCN is received for SID. --- Check the box number and pass code. In F code receiving : <Receive> "F code relay broadcasting" or "F code confidential reception" is "Inhibited with soft SW."
65	NG65 XXXX	If the reservation of the job cannot be completed when reserving the job from PC-FAXorPC-IFAX; *If an error occurs when storing the job ticket (including fmSyncFile error); *If an error occurs when creating the thumbnail; *If an error occurs when creating the map; *If an error occurs during the storage of the control table;
67	F PASS # NG	In F code receiving, the pass code (SID) is not matched. <Receive>
68	BOX NO. NG	In F code reception, a box number which is not registered is specified. (SUB is not matched.) <Receive>
69	MEMORY OVER	Memory over in quick online sending <Send>
70	(JOB MEMORY OVER)	In PC-FAX reservation, the number of remote parties is exceeded. <Send>
71	NG71 XXXX *1	In PC-FAX reservation, data sent from PC includes some errors. <Send>
72	(NG72 XXXX) *1	In department management setting on the machine side: • In reservation from PC-FAX or PC-Internet FAX, a department number which is not registered on the machine side is specified. <Send> • In reservation from PC-FAX or PC-Internet FAX, the department number is not specified. <Send>

Report code (Communication result)	Display in the column of result	Content of communication interruption
73	NG73 XXXX *1	In reservation from PC-FAX or PC-Internet FAX, the use quantity limit is exceeded. <Send>
74	NG74 XXXX *1	When reserving specified filing in document filing in PC-FAX or PC-Internet FAX; <ul style="list-style-type: none"> • The pass-code for the folder is set on the machine side and the pass-code from PC-XXX does not match with it. <Send> • The pass-code for the folder is set on the machine side and no pass-code is specified by PC-XXX. <Send>
75	NG75 XXXX *1	<ul style="list-style-type: none"> • Reservation cannot be made due to machine busy. (Reservation of PC-FAX cannot be accepted.) • When "PC-FAX or PC-Internet FAX send inhibit" is set on the machine side.
76	NG76 XXXX *1	Reserved with receive confirmation request in PC-Internet FAX, but the Internet FAX sender is not registered on the machine side. <Send>
77	NG77 XXXX *1	In reserving specified filing in PC-FAX or PC-Internet FAX, the machine has no filing function.
78	NG78 XXXX *1	The filing function is inhibited on the machine side when filing specification is reserved by PC-FAX or PC-Internet FAX.
79	NG79 XXXX *1	An authentication error occurs when PC-FAX or PC-Internet FAX is reserved.
80	NG80 XXXX *1	NIC connect failure (network abnormality) <ul style="list-style-type: none"> • Check for disconnection of cables. • A network trouble (CE-XX) occurs. • The port is set to DISABLE. • Authentication of the POP server is failed when POP before SMTP is enabled. • When an error other than the communication result code 93 or 94 in D-SMTP send (including error response of 5XX)
81	NG REPORT	In Internet FAX send, reply of receive confirmation of the remote machine is not normal. (Including PC-Internet FAX). <ul style="list-style-type: none"> • Error of the disposition-modifier. • The disposition modifier is not in an error, and the disposition type is other than displayed, dispatched, or processed.
82	NO REPORT	In Internet FAX send, time-out occurs in waiting for receive confirmation from the remote machine. (Including PC-Internet FAX). <ul style="list-style-type: none"> • In a case where send confirmation wait time-out time is other than 0, when send confirmation reply from an Internet FAX destination is not received. • Recalls of the set number of recalls are performed, but send confirmation reply from an internet AFx destination is not received.
83	NG LIMIT	In E-mail/FTP, Internet FAX send, the send data size exceeds the upper limit of send data.
84	REJECTED	In e-mail receive, a sender is registered in receive reject address/domain. <Receive>
85	NG85 XXXX *1	In e-mail receive, an error occurs in communication with POP3 server. <ul style="list-style-type: none"> • Header acquisition error. • Time-out during mail receive
86	RECEIVED	In e-mail receive, an unsupported attached file is received. Only the TIFF-F type is supported for attached files. <ul style="list-style-type: none"> • The TIFF-F type of the attached file cannot be recognized. • There is no attached file.
87	NG87 XXXX *1	In e-mail receive, an attached file cannot be stored in memory. <ul style="list-style-type: none"> • Memory over
88	NG88 XXXX *1	In SMTP e-mail receive, an attached file cannot be stored in memory. <ul style="list-style-type: none"> • Cannot be stored in memory. • The number of items of acting receive data is the maximum, and an additional data cannot be stored.
89	NG89 XXXX *1	In SMTP e-mail receive, an error occurs in communication with the mail server. <ul style="list-style-type: none"> • Time-out occurs during e-mail receive.
90	NG90 XXXX *1	After reservation by re-operation of document filing, conversion for image send cannot be made. <ul style="list-style-type: none"> • conversion for image sending cannot be made.
91	NG91 XXXX *1 *2	Data cannot be written to the memory device when Scan To USB is executed. <ul style="list-style-type: none"> • The memory device is disconnected during writing to the memory device. • An error occurs due to a memory device trouble.
92	NG92 XXXX *1 *2	The USB device memory overflows during writing data into the memory device when "Scan to USB" is executed.
93	NG93 XXXX *1	When error in D-SMTP send (with recall) <ul style="list-style-type: none"> • An error response of 4XX occurs during communication with the SMTP server. • Time out occurs after establishment of connection with the SMTP server.
94	NG94 XXXX *1	When busy in D-SMTP send Time out occurs during establishment of connection with the SMTP server.
95	NG95 XXXX *1	When the path is too long in execution of Scan To USB.
96	NG96 XXXX *1	When the normal process is not executed in the secure mail sending.
98	NG98 XXXX *1	The copy inhibit pattern is detected when scanning a document.
99	NG99 XXXX *1	A document which is inhibited to be copied such as a banknote is scanned.

*1: For a job status result in "Display in the column of result," "NG △△ XXXX" is displayed. "△△" is the code number.

For a communication result, "Communication error △△ (XXXX)" is displayed.

*2: The error code of Scan To USB is specified only in the job log.

- When the communication result is OK, the communication sub code 1 and the communication sub code 2 are "0000."
- Errors in () are not used.

(2) Communication report sub code 1

The communication report sub code 1 (upper 2 digits) are always indicated as "00."

(3) Communication report sub code 2

Report code 2	Content of communication interruption	Send/Receive
00	When the conditions after 01 do not apply.	Send/Receive
01	Send length over	Send
02	EOL time up	Receive
03	Carrier detection time up	Receive
04	Time up of the communication start command from the machine side	Receive
05	Time up in phase C (8 min)	Send
06	Memory image decode error	Receive
07	Memory image decode error	Send
08	Time up between frames in phase C (Report code is 0 or 16.)	Send/Receive
09	Not used	—
10	Not used	—
11	Polarity reversion detection	Receive
12	Invalid command reception	Receive
13	Time up (1-minute timer/6-second time)	Receive
14	PUT error	Receive
15	In V.34 mode, time up is generated when shifting from Primary to Control.	Receive
16	In V.34 mode, time up is generated when shifting from Control to Primary.	Receive
17	Command receive time-up from MFP controller	Receive
18	Not used	—
19	Not used	—
20	Polarity reversion detection	Send
21	Invalid command reception	Send
22	Fallback retry number over	Send
23	Command retry number resend over	Send
24	Time up (T5 timer)	Send
25	Time up (T5 timer) in V.34 mode	Send
26	In V.34 mode, time up is generated when shifting from Primary to Control.	Send
27	In V.34 mode, time up is generated when shifting from Control to Primary.	Send
28	When sending the FSK signal, no response of send completion is sent back from the MODEM chip within a certain time. (V.34, other than V.34)	Send
29	Not used	—
30	A communication error is generated between MFP controller and Modem controller. (Report code is 0 or 16.)	—
31	DC current not detected (busy) Line disconnected.	Send
32	Dial tone not detected (busy)	Send
33	Busy tone detection (busy)	Send
34	T0 time up (Remote machine not responding)	Send
35	T1 time up (Remote machine not responding)	Send
36	In dialing, polarity reversion detection (Remote machine not responding)	Send
37	Calling is not made (busy)<Collision detected (including CNG detection)>	Send
38	Not used	—
60	In resend of document filed data, an error occurs in decoding or coding.	Resend
61	In resend of document filed data, setting to inhibit resolution conversion is made. (The resolution after resend is set to be Enlarged.)	Resend
62	In resend of document filed data, rotation setting is made for data which cannot be rotated.	Resend
63	In resend of document filed data, data cannot be stored in HD after conversion of resolution for resend.	Resend
64	In resending data of document file, during conversion for resending, the number of IMS management pages exceeds the upper limit (999). (It occurs in OSA Scan to FTP also, resulting in memory over.)	Resend OSAScanToFTP
70	E-mail header acquisition error	E-mail receive
71	Time out occurs during e-mail receive.	E-mail receive
72	Receive reject occurs during e-mail receive.	E-mail receive
73	Network communication cannot be made due to port disable.	Network send
74	An authentication of the POP server is failed when POP before SMTP is enabled.	Network send
75	In the setting of SSL communication, when SSL communication is tried but the server side does not support SSL.	Network send
76	There is no image in network communication (transfer).	Network send
80	There is no attached file in received e-mail.	E-mail receive
81	The attached file of received e-mail is not of TIFF type which is supported.	E-mail receive
82	The TIFF type of the attached file in received e-mail cannot be recognized. ID error	E-mail receive
83	The TIFF type of the attached file in received e-mail cannot be recognized. Endian error	E-mail receive
84	The TIFF type of the attached file in received e-mail cannot be recognized. Version error	E-mail receive
85	The TIFF type of the attached file in received e-mail cannot be recognized. Tag data error	E-mail receive
86	The TIFF type of the attached file in received e-mail cannot be recognized. Tag parameter error	E-mail receive

Report code 2	Content of communication interruption	Send/Receive
87	The TIFF type of the attached file in received e-mail cannot be recognized. Header size error	E-mail receive
88	The TIFF type of the attached file in received e-mail cannot be recognized. Data error	E-mail receive
90	In e-mail receive, an attached file cannot be stored in memory. Memory over. Cannot be stored in memory.	E-mail receive
91	In e-mail receive, an attached file cannot be stored in memory. The file size is too great to be stored in memory.	E-mail receive
92	In SMTP e-mail receive, an attached file cannot be stored in memory. Cannot be stored in memory.	E-mail receive
93	There is character that cannot be processed. OCR processing error.	—

When the sub code 2 is "08" or "30" and the communication report is "OK," the report code is "00" or "16."

2. Dial tone

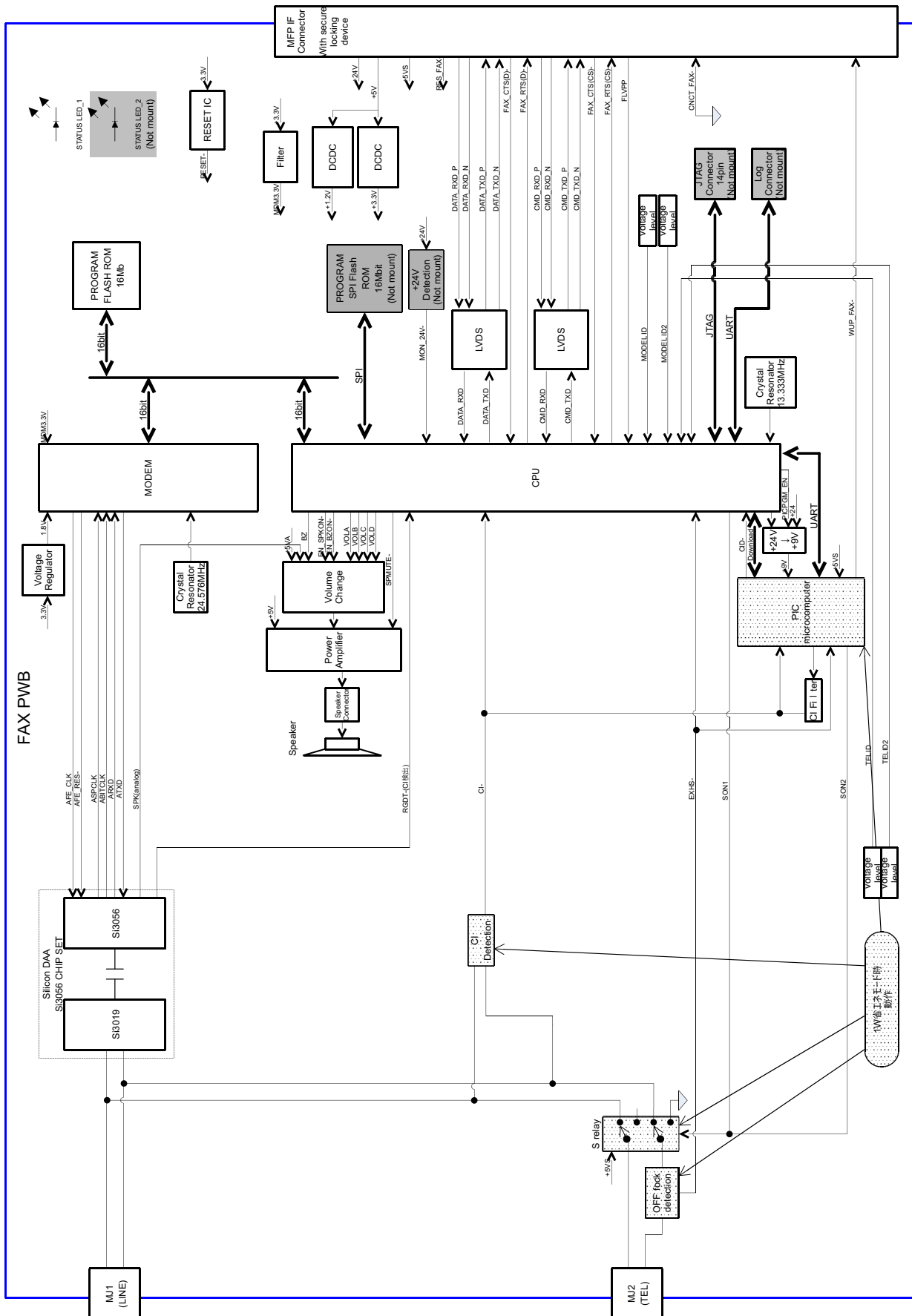
When shipping from the factory, the dial tone detection when sending is set to Enable (changed from OFF to ON). When installing this machine, be sure to check and confirm that the dial tone is properly detected and the auto dial sending is enabled.

Check to confirm that the continuous buzzer sound is heard when the on-hook key is pressed. (Press the on-hook key again to cancel the buzzer sound.)

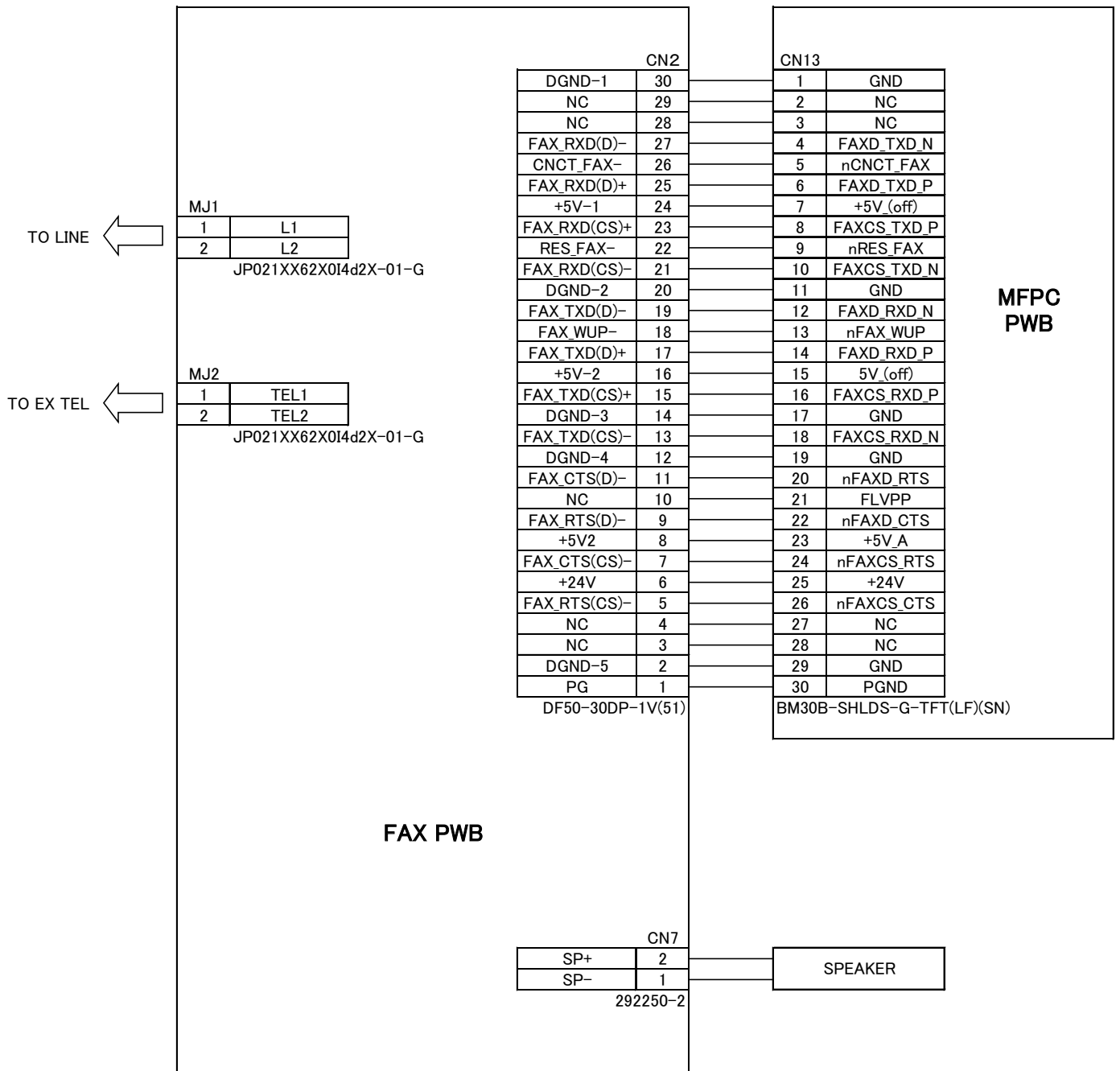
If facsimile communication cannot be executed normally through the IP telephone line, try the general telephone line.

[4] ELECTRICAL SECTION

1. Block diagram



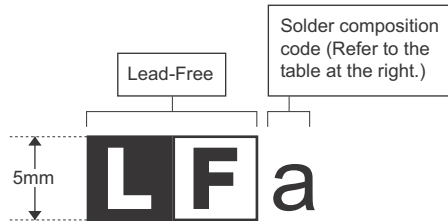
2. Actual wiring chart



LEAD-FREE SOLDER

The PWB's of this model employs lead-free solder. The "LF" marks indicated on the PWB's and the Service Manual mean "Lead-Free" solder. The alphabet following the LF mark shows the kind of lead-free solder.

Example:



<Solder composition code of lead-free solder>

Solder composition	Solder composition code
Sn-Ag-Cu	a
Sn-Ag-Bi Sn-Ag-Bi-Cu	b
Sn-Zn-Bi	z
Sn-In-Ag-Bi	i
Sn-Cu-Ni	n
Sn-Ag-Sb	s
Bi-Sn-Ag-P Bi-Sn-Ag	p

(1) NOTE FOR THE USE OF LEAD-FREE SOLDER THREAD

When repairing a lead-free solder PWB, use lead-free solder thread.

Never use conventional lead solder thread, which may cause a breakdown or an accident.

Since the melting-point of lead-free solder thread is about 40°C higher than that of conventional lead solder thread, the use of the exclusive-use soldering iron is recommended.

(2) NOTE FOR SOLDERING WORK

Since the melting-point of lead-free solder is about 220°C, which is about 40°C higher than that of conventional lead solder, and its soldering capacity is inferior to conventional one, it is apt to keep the soldering iron in contact with the PWB for longer time. This may cause land separation or may exceed the heat-resistive temperature of components. Use enough care to separate the soldering iron from the PWB when completion of soldering is confirmed.

Since lead-free solder includes a greater quantity of tin, the iron tip may corrode easily. Turn ON/OFF the soldering iron power frequently.

If different-kind solder remains on the soldering iron tip, it is melted together with lead-free solder. To avoid this, clean the soldering iron tip after completion of soldering work.

If the soldering iron tip is discolored black during soldering work, clean and file the tip with steel wool or a fine filer.

