(2-7) U017XX error code table: V.34 transmission

Error code	Description
U01700	A communication error occurred in phase 2 (line probing).
U01720	A communication error occurred in phase 4 (modem parameter exchange).
U01721	Operation was interrupted due to the absence of a common communication speed between units.

U01700: A communication error that occurs at the transmitting unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/A/Abar (B/Bbar, for polling transmission)/INFOh was not detected.
U01720: A communication error that occurs at the transmitting unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.
U01721: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange; 1) a DCN signal was received from the destination unit, and the line was cut; or 2) a DIS (NSF, CSI) signal was received from the destination unit and, in response to the signal, the unit transmitted a DCN signal, and the line was cut.

(2-8) U018XX error code table: V.34 reception

Error code	Description
U01800	A communication error occurred in phase 2 (line probing).
U01810	A communication error occurred in phase 3 (primary channel equivalent device training).
U01820	A communication error occurred in phase 4 (modem parameter exchange).
U01821	Operation was interrupted due to the absence of a common communication speed between units.

U01800: A communication error that occurs at the receiver unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/B/Bbar (A/Abar, for polling reception)/probing tone was not detected.
U01810: A communication error that occurs at the receiver unit in phase 3 (primary channel equivalent device training). For example, S/Sbar/PP/TRN was not detected.
U01820: A communication error that occurs at the receiver unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.
U01821: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange, a DCN signal was transmitted to the destination unit and the line was cut.

(2-9) U044XX error code table: Encrypted transmission

Error code	Description
U04400	Encrypted transmission was interrupted because encryption keys did not agree.
U04401	Calling failed during encrypted transmission because the encryption key was not registered.

Error code	Description
U01191	Communication was interrupted because an error occurred during an image data reception sequence in the V.34 mode.
U01199	A DIS signal with different FIF was received after transmission of a DIS signal.

(2-6) U011XX error code table: G3 reception

Error code	Description
U01100	Function of the unit differs from that indicated by a DCS signal.
U01101	Function of the unit (excl. communication mode select) differs from that indicated by an NSS signal.
U01102	A DTC (NSC) signal was received when no transmission data was in the unit.
U01110	No response after transmission of a DIS signal.
U01111	No response after transmission of a DTC (NSC) signal.
U01112	No training reception after reception of a DCS or NSS signal.
U01113	No response after transmission of an FTT signal.
U01114	No message reception after transmission of a CFR signal.
U01115	No message reception after transmission of an MCF signal.
U01116	No message reception after transmission of a PPR signal.
U01117	No message reception after transmission of a CTR signal.
U01118	No message reception after transmission of an ERR signal.
U01119	No further signals were received after reception of a message.
U01120	No response after transmission of an MCF signal.
U01121	No response after transmission of an RTP signal.
U01122	No response after transmission of an RTN signal.
U01123	No response after transmission of a PIP signal.
U01124	No response after transmission of a PIN signal.
U01125	No response after transmission of a CNS signal (between units of our make).
U01126	No response after transmission of a PPR signal (ECM).
U01127	No response after transmission of an ERR signal (ECM).
U01128	No response after transmission of an RNR signal (ECM).
U01129	No response after transmission of an SPA signal (short protocol).
U01140	A DCN signal was received after transmission of a DIS signal.
U01141	A DCN signal was received after transmission of a DTC signal.
U01142	A DCN signal was received after transmission of a DCS or NSS signal.
U01143	A DCN signal was received after transmission of an FTT signal.
U01144	A DCN signal was received after transmission of a CFR signal.
U01145	A DCN signal was received after reception of a message.
U01146	A DCN signal was received after transmission of an MCF signal (interoffice communication after reception of an MPS, EOM signal or confidential interoffice communication).
U01147	A DCN signal was received after transmission of an RTP signal.
U01148	A DCN signal was received after transmission of an RTN signal.
U01149	A DCN signal was received after transmission of a PIP signal.
U01150	A DCN signal was received after transmission of a PIN signal.
U01151	A DCN signal was received after transmission of a PPR signal (ECM).
U01152	A DCN signal was received after transmission of a CTR signal (ECM).
U01153	A DCN signal was received after transmission of an ERR signal (ECM).
U01154	A DCN signal was received after transmission of an RNR signal (ECM).
U01155	A DCN signal was received after transmission of an SPA signal (short protocol).
U01160	During message reception, transmission time exceeded the maximum transmission time per line.
U01161	Number of error lines exceeded limits during message reception.
U01162	A break in loop current was detected during message reception.
U01163	Polarity reversal was detected during message reception.
U01164	One page length exceeded the specified length during message reception.
U01170	A decoding error occurred during MMR message reception.
U01172	During reverse polling in V.34 mode at the transmitting unit, a JM signal was not detected after transmission of a CM signal when receiving after transmission.

Error code	Description
U01045	A DCN or other inappropriate signal was received after transmission of an MPS signal.
U01046	A DCN or other inappropriate signal was received after transmission of an EOM signal.
U01047	A DCN or other inappropriate signal was received after transmission of an EOP signal.
U01048	A DCN signal was received after transmission of a PRI-EOP signal.
U01049	A DCN signal was received after transmission of a CNC signal (between units of our make).
U01050	A DCN signal was received after transmission of a CTC signal (ECM).
U01051	A DCN signal was received after transmission of an EOR.Q signal (ECM).
U01052	A DCN signal was received after transmission of an RR signal (ECM).
U01053	A DCN signal was received after transmission of a PPS.NULL signal (ECM).
U01054	A DCN signal was received after transmission of a PPS.MPS signal (ECM).
U01055	A DCN signal was received after transmission of a PPS.EOM signal (ECM).
U01056	A DCN signal was received after transmission of a PPS.EOP signal (ECM).
U01057	A DCN signal was received after transmission of a PPS.PRI-EOP signal (ECM).
U01070	Polarity reversal was detected during handshake.
U01071	Polarity reversal was detected during message transmission.
U01072	A break in loop current was detected during transmission.
U01073	During reverse polling in V.34 mode at the receiver unit, a CM signal was not detected when transmitting after reception.
U01080	A PIP signal was received after transmission of a PPS.NULL signal.
U01091	During transmission in V.34 mode, communication was interrupted because a PPR signal was received over 10 times even after reducing the communication speed to the minimum with the symbol speed maintained at the level of connection.
U01092	During transmission in V.34 mode, communication was interrupted because of an impossible combination of the symbol speed and communication speed.

(2-5) U010XX errror code table: G3 transmission

Error code	Description
U01000	An FTT signal was received for a set number of times after TCF signal transmission at 2400 bps. Or, an RTN signal was received in response to a Q signal (excluding EOP) after transmission at 2400 bps.
U01001	Function of the unit differs from that indicated by a DIS signal.
U01010	No relevant signal was received after transmission of a DNL (MPS or EOM) signal, and the preset number of command retransfers was exceeded (between units of our make).
U01011	No relevant signal was received after transmission of a DCS, TCF signal, and the preset number of command retransfers was exceeded.
U01012	No relevant signal was received after transmission of an NSS1, NSS2 (TCF) signal, and the preset number of command retransfers was exceeded (between units of our make).
U01013	No relevant signal was received after transmission of an NSS3, TCF signal, and the preset number of command retransfers was exceeded (between units of our make).
U01014	No relevant signal was received after transmission of an MPS signal, and the preset number of command retransfers was exceeded.
U01015	No relevant signal was received after transmission of an EOM signal, and the preset number of command retransfers was exceeded.
U01016	An MCF signal was received but no DIS signal was received after transmission of an EOM signal, and T1 timeout was detected.
U01017	No relevant signal was received after transmission of an EOP signal, and the preset number of command retransfers was exceeded.
U01018	No relevant signal was received after transmission of a PRI-EOP signal, and the preset number of command retransfers was exceeded.
U01019	No relevant signal was received after transmission of a CNC signal, and the preset number of command retransfers was exceeded (between units of our make).
U01020	No relevant signal was received after transmission of a CTC signal, and the preset number of command retransfers was exceeded (ECM).
U01021	No relevant signal was received after transmission of an EOR.Q signal, and the preset number of command retransfers was exceeded (ECM).
U01022	No relevant signal was received after transmission of an RR signal, and the preset number of command retransfers was exceeded (ECM).
U01023	No relevant signal was received after transmission of a PSS.NULL signal, and the preset number of command retransfers was exceeded (ECM).
U01024	No relevant signal was received after transmission of a PSS.MPS signal, and the preset number of command retransfers was exceeded (ECM).
U01025	No relevant signal was received after transmission of a PPS.EOM signal, and the preset number of command retransfers was exceeded (ECM).
U01026	No relevant signal was received after transmission of a PPS.EOP signal, and the preset number of command retransfers was exceeded (ECM).
U01027	No relevant signal was received after transmission of a PPS.PRI-EOP signal, and the preset number of command retransfers was exceeded (ECM).
U01028	T5 timeout was detected during ECM transmission (ECM).
U01040	A DCN or other inappropriate signal was received during standby for DIS signal reception.
U01041	A DCN signal was received after transmission of a DNL (MPS or EOM) signal (between units of our make).
U01042	A DCN signal was received after transmission of a DCS, TCF signal.
U01043	A DCN signal was received after transmission of an NSS1, NSS2 (TCF) signal (between units of our make).
U01044	A DCN signal was received after transmission of an NSS3, TCF signal (between units of our make).

(2-3) U008XX error code table: Page transmission error

Error code	Description
U00800	A page transmission error occurred because of reception of a RTN or PIN signal.
U00810	A page transmission error reoccurred after retry of transmission in the ECM mode.

(2-4) U009XX error code table: Page reception error

Error code	Description
U00900	An RTN or PIN signal was transmitted because of a page reception error.
U00910	A page reception error remained after retry of transmission in the ECM mode.

(2-1) U004XX error code table: Interrupted phase B

Error code	Description
U00420	A relay request was received from the host center but interrupted because of a mismatch in permit ID or telephone number.
U00421	F-code based relay reception was interrupted because of a mismatch in the specified F-code relay box number.
U00430	A polling request was received but interrupted because of a mismatch in permit ID in the transmitting unit. Or, F-code based bulletin board transmission request was received but interrupted because of a mismatch in permit ID in the transmitting unit.
U00431	An F-code based bulletin board transmission was interrupted because the specified F-code confidential box was not registered.
U00432	An F-code based bulletin board transmission was interrupted because of a mismatch in F-code confidential box numbers.
U00433	F-code based bulletin board transmission request was received but data was not present in the F-code confidential box.
U00435	F-code based bulletin board transmission request was received but interrupted because the specified F-code confidential box was being accessed.
U00440	F-code based confidential reception or F-code based relay reception was interrupted because the specified F-code box was not registered.
U00450	The destination unit in password check transmission mode interrupted transmission because of a mismatch in permit ID.
U00460	Encrypted reception was interrupted because the specified encryption box number was not registered.
U00462	Encrypted reception was interrupted because the encryption key for the specified encryption box was not registered.

(2-2) U006XX error code table: Problems with the unit

Error code	Description
U00600	The SRDF cover is open.
U00601	Document jam or the document length exceeds the maximum.
U00602	Image scanning section problem.
U00603	No document feed.
U00604	Document length exceeded the limit of the bitmap memory capacity.
U00610	Recording section cover is open.
U00655	CTS was not activated after RTS due to a modem error.
U00656	Data was not transmitted after CTS was activated due to a modem error.
U00670	Power was cut off during communication.
U00677	There was no file to transmit in the memory transmission mode.
U00690	System error.

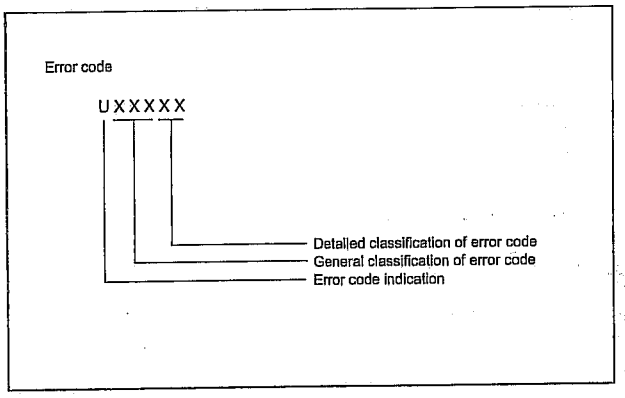
Error code	Description
U04200	In encrypted transmission, the specified encryption box was not registered in the destination unit.
U04300	Encrypted transmission failed because the destination unit had no encrypted communication capability.
U044XX	Communication was interrupted because of an encryption key error during encrypted transmission (refer to page 1-4-10 "U044XX error code table").
U04500	Encrypted reception was interrupted because of a mismatch in encryption keys.
U05100	Password check transmission was interrupted because the permit ID did not agree.
U05200	Password check reception was interrupted because the permit ID did not agree.
U05300	Destination unit in password check reception mode did not receive data because the permit ID did not agree.
U09000	G3 communication was attempted but failed because the destination unit was a G2 machine.
U12000	In F-code based relay reception, memory overflowed.
U14000	In F-code based confidential reception, memory overflowed.
U14100	In interoffice F-code based transmission, memory overflowed in the destination unit.
U19000	Memory overflowed during memory reception.
U19100	Memory overflowed in the destination unit during transmission.
U19200	Memory transmission failed because a decoding error occurred.
U19300	Transmission failed because an error occurred during JBIG encoding.
U19400	Reception failed because an error occurred during JBIG decoding.

(2) Table of general classification

Error code	Description
U00000	No response or busy after the set number of redials.
U00100	Transmission was interrupted by a press of the stop/clear key.
U00200	Reception was interrupted by a press of the stop/clear key.
U00300	Recording paper on the destination unit has run out during transmission.
U004XX	A connection was made but interrupted during handshake with the receiver unit (refer to page 1-4-4 "U004XX error code table").
U00500	Multiple communication was interrupted and call was not made on destination units after interruption.
U006XX	Communication was interrupted because of a machine problem (refer to page 1-4-4 "U006XX error code table").
U00700	Communication was interrupted because of a problem in the destination unit.
U008XX	A page transmission error occurred in G3 mode (refer to page 1-4-5 "U008XX error code table").
U009XX	A page reception error occurred in G3 mode (refer to page 1-4-5 "U009XX error code table").
U010XX	Transmission in G3 mode was interrupted by a signal error (refer to page 1-4-6 "U010XX error code table").
U011XX	Reception in G3 mode was interrupted by a signal error (refer to page 1-4-8 "U011XX error code table").
U012XX	Not used.
U013XX	Not used.
U01400	An invalid one-touch key was specified during communication.
U01500	A communication error occurred when calling in V.8 mode.
U01600	A communication error occurred when called in V.8 mode.
U017XX	A communication error occurred before starting T.30 protocol during transmission in V.34 mode (refer to page 1-4-10 "U017XX error code table").
U018XX	A communication error occurred before starting T.30 protocol during reception in V.34 mode (refer to page 1-4-10 "U018XX error code table").
U02200	F-code based relay broadcast transmission failed because the data registered in the F-code relay box was deleted.
U02400	An interoffice F-code based relay transmission was interrupted because of a mismatch in the specified relay box number.
U03000	No document was present in the destination unit when polling reception started.
U03200	In interoffice F-code based bulletin board reception, data was not stored in the box specified by the destination unit.
U03300	In polling reception from a unit of our make, operation was interrupted due to a mismatch in permit ID or telephone number. Or, in interoffice F-code based bulletin board reception, operation was interrupted due to a mismatch in permit ID or telephone number.
U03400	Polling reception was interrupted because of a mismatch in individual numbers (destination unit is either of our make or by another manufacturer).
U03500	In interoffice F-code based bulletin board reception, the specified F-code confidential box number was not registered in the destination unit.
U03600	An interoffice F-code based bulletin board reception was interrupted because of a mismatch in the specified F-code confidential box number.
U03700	Interoffice F-code based bulletin board reception failed because the destination unit had no F-code based bulletin board transmission capability, or data was not stored in any F-code confidential box in the destination unit.
U04000	In interoffice F-code based transmission mode, the specified F-code box number was not registered in the destination unit.
U04100	F-code based transmission failed because the destination unit had no F-code based reception capability.

1-4-1 Error codes

(1) Error code
Error codes are listed on the communication reports, activity report, etc. The codes consist of an error code indication "U" followed by a 5-digit number.
The upper three of the five digits indicate general classification of the error and its cause, while the lower two indicate the detailed classification. Items for which detailed classification is not necessary have "00" as the last two digits.



Maintenance item No.	Description
U914	**Switching between fax/copier modes** **Description** Switches between fax and copier modes when the facsimile kit is installed to use the copier as a fax. **Purpose** To be set according to frequency of use: set to the more frequently used mode. **Method** Press the start key. The screen for selecting an item is displayed. **Setting** 1. Select the mode (copier or fax) to be given priority using the cursor up/down keys. 2. Press the start key. The value is set, and the screen for selecting a maintenance item No. is displayed. **Completion** To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U992	**Checking or clearing the printer/fax count** **Description** Displays, clears or changes the print count of the printer or fax when the printer board or facsimile kit is installed. **Purpose** To check the condition of use of the printer or fax. **Method** Press the start key. The print count of the printer or fax is displayed. **Setting** 1. Select the count to be changed using the cursor up/down keys. 2. Enter a six-digit numerical value using the numeric keys. To clear both of the printer and fax counts, press the reset key. 3. Press the start key. The count is set. **Completion** Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U894	**Performing board test** **Description** Performs tests on the SRAM, DRAM (image memory, bitmap memory) and optional memory on the fax control PCB. **Purpose** Used to check if reading and writing are performed correctly in respective installed memories. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. BOARD MEMORY: Performs tests on SRAM and DRAM. BOARD OP. MEM: Performs tests on optional memory. **Performing tests on SRAM and DRAM** 1. Press the start key. The test is performed and the results displayed as follows. • When the test result is OK: TEST MEMORY OK • If the test result is NG: TEST MEMORY NG DRAM IMG 0x****** ******: address DRAM IMG: DRAM (image memory) error DRAM B.M: DRAM (bitmap memory) error SRAM: SRAM error 2. To return to the screen for selecting an item, press the stop/clear key. **Performing tests on optional memory** 1. Press the start key. The test is performed and the result is displayed as follows. • When the test result is OK: TEST OPTION MEMORY OK • If the test result is NG: TEST OPTION MEMORY NG DRAM B.M 0x****** ******: address • If the test result is NG (memory is not installed): TEST OPTION MEMORY NG DRAM B.M 2. To return to the screen for selecting an item, press the stop/clear key. **Completion** If the test result is OK, press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed. If the test result is NG, reset by turning the main switch off and on.

1-3

<table>
<tr><th>Maintenance item No.</th><th>Description</th></tr>
<tr><td>U670 (cont.)</td><td>
Setting the V.34 symbol speed (2800 Hz)
Sets if the V.34 symbol speed 2800 Hz is used.
1. Enter 1 or 2 using the numeric keys to change the setting.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>1: ON
2: OFF</td><td>V.34 symbol speed 2800 Hz is used.
V.34 symbol speed 2800 Hz is not used.</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U680</td><td>
Displaying the fax board ROM version
Description
Displays the version of the ROM on the fax control PCB.
Purpose
Used to check the version of the ROM on the fax control PCB.
Method
1. Press the start key. The version of the ROM on the fax control PCB is displayed.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance Item No.	Description
U670	**Setting the system (communication 3)** **Description** Makes settings for fax transmission regarding the communication. **Purpose** To reduce transmission errors when a low quality line is used. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys.

Display	Description
V.34 MODEM	Enables or disables V.34 communication.
V.34 SYMBOL 3429Hz	Sets the V.34 symbol speed (3429 Hz).
V.34 SYMBOL 3200Hz	Sets the V.34 symbol speed (3200 Hz).
V.34 SYMBOL 3000Hz	Sets the V.34 symbol speed (3000 Hz).
V.34 SYMBOL 2800 Hz	Sets the V.34 symbol speed (2800 Hz).

3. Press the start key. The screen for the selected item is displayed.

Enabling/disabling V.34 communication

Sets whether V.34 communication is enabled/disabled for transmission and reception.

1. Change the setting using the numeric keys.

Display	Description
1: ON	V.34 communication is enabled for both transmission and reception.
2: TX	V.34 communication is enabled for transmission only.
3: RX	V.34 communication is enabled for reception only.
4: OFF	V.34 communication is disabled for both transmission and reception.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the V.34 symbol speed (3429 Hz)

Sets if the V.34 symbol speed 3429 Hz is used.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	V.34 symbol speed 3429 Hz is used.
2: OFF	V.34 symbol speed 3429 Hz is not used.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the V.34 symbol speed (3200 Hz)

Sets if the V.34 symbol speed 3200 Hz is used.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	V.34 symbol speed 3200 Hz is used.
2: OFF	V.34 symbol speed 3200 Hz is not used.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the V.34 symbol speed (3000 Hz)

Sets if the V.34 symbol speed 3000 Hz is used.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	V.34 symbol speed 3000 Hz is used.
2: OFF	V.34 symbol speed 3000 Hz is not used.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U660 (cont.)	**Setting the CNG detection times in the fax/telephone auto select mode** Sets the CNG detection times in the fax/telephone auto select mode. 1. Change the setting using the numeric keys. Display: 1: 1 TIME — Description: Detects CNG once. Display: 2: 2 TIMES — Description: Detects CNG twice. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting ECM for each abbreviated number** Turns ECM on/off for each abbreviated number. 1. Enter a registered two-digit abbreviated number and press the start key. 2. Enter 1 or 2 using the numeric keys to change the setting. Display: 1: ON — Description: ECM communication is performed for all abbreviated numbers. Display: 2: OFF — Description: Disables the ECM for abbreviated numbers. 3. Press the start key. The value is set. The screen for entering an abbreviated number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering an abbreviated number. **Setting ECM for each one-touch key** Turns ECM on/off for each one-touch key. 1. Enter a registered two-digit one-touch key number and press the start key. 2. Enter 1 or 2 using the numeric keys to change the setting. Display: 1: ON — Description: ECM communication is performed for all one-touch keys. Display: 2: OFF — Description: Disables the ECM for one-touch keys. 3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-touch key number. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U660	**Setting the system (communication 2)** **Description** Makes settings for fax transmission regarding the communication. **Purpose** To reduce transmission errors when a low quality line is used. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. Setting the criteria for receiving a TCF signal 2

Display	Description
TCF CHECK 2	Sets the criteria for receiving a TCF signal 2.
SHORT PROTOCOL TX	Sets the short protocol transmission.
SHORT PROTOCOL RX	Sets the reception of short protocol transmission.
NUMBER OF CNG (F/T)	Sets the CNG detection times in the fax/telephone auto select mode.
ABBR DIAL ECM SETTING	Turns ECM for abbreviated dialing on/off.
1-TOUCH DIAL ECM SETTING	Turns ECM for one-touch dialing on/off.

Setting the criteria for receiving a TCF signal 2
Sets the signal checking time as a criterion for a received TCF signal.
1. Enter 1 or 2 using the numeric key to change the setting.

Display	Description
1: LONG	Checks for 1.0 s.
2: SHORT	Checks for 0.8 s.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the short protocol transmission
Sets if short protocol transmission is performed.
1. Change the setting using the numeric keys.

Display	Description
1: ON	Short protocol transmission is performed.
2: OFF	Short protocol transmission is not performed.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the reception of a short protocol transmission
Selects whether to receive or ignore transmission using short protocol.
If a short protocol transmission is received when an auto switching device is attached to the machine, communication problems, including auto switching inability, sometimes occur. Change the setting to ignore short protocol transmission to prevent such problems.
1. Change the setting using the numeric keys.

Display	Description
1: ON	Receives short protocol transmission.
2: OFF	Ignores short protocol transmission.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance item No.	Description
U651	**Setting the system 2** **Description** Sets the variation range in rotation reception and the number of adjustment lines for automatic reduction. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
ROTATION RX ERR	Sets the variation range in the auxiliary scanning direction for rotation reception.
ADJ LINES	Sets the number of adjustment lines for automatic reduction.
ADJ LINES (A4)	Sets the number of adjustment lines for automatic reduction when A4 paper is set.
ADJ LINES (LT)	Sets the number of adjustment lines for automatic reduction when letter size paper is set.

Setting the variations range in rotation reception

Sets the maximum number of lines to be ignored when the received data exceeds the acceptable number of lines in the rotation reception mode. If the number of excessive lines is smaller than the set value, those lines are ignored and rotation reception is performed; if it is larger than the set value, rotation reception is not performed.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting
Number of variation lines in the auxiliary scanning direction	0 to 255	3

Even if rotation reception fails, it can be enabled by increasing this value, however, some parts of the received image may not be printed.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of adjustment lines for automatic reduction

Sets the number of adjustment lines for automatic reduction.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting
Number of adjustment lines for automatic reduction	0 to 22	7

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of adjustment lines for automatic reduction when A4 paper is set

Sets the number of adjustment lines for automatic reduction when A4 paper is set.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting
Number of adjustment lines for automatic reduction when A4 paper is set	0 to 22	22

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of adjustment lines for automatic reduction when letter size paper is set

Sets the number of adjustment lines for automatic reduction when letter size paper is set.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting
Number of adjustment lines for automatic reduction when letter size paper is set	0 to 26	26

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U650 (cont.)	**Setting the number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode** Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when the data is recorded in the auto reduction mode onto A4R or letter-size paper under the conditions below. If the number of excess lines is below the setting, those lines are ignored. If over the setting, the entire data on a page is further reduced so that it can be recorded on the same page. • With A4R present and folio absent in the drawers • With letter-size paper present and legal-size paper absent in the drawers 1. Change the setting using the numeric keys.

Description	Setting range	Initial setting	Change in value per step
Number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode	0 to 22	3	6 lines

Increase the setting if a page received in the reduction mode is over-reduced and too much trailing edge margin is left. Decrease it if the received image does not include all transmitted data.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the recording width for inch specifications

Sets the maximum recording width and processing method when 11" width fax paper is loaded on an inch-specification machine.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: 11 x 17	Communicates to the destination unit 11" width as A3 width and records at 100% magnifications.
2: B4	Communicates to the destination unit 11" width as B4 width.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the automatic printing of the protocol list

Sets if the protocol list is automatically printed out.

1. Change the setting using the numeric keys.

Display	Description
1: OFF	The protocol list is not printed out automatically.
2: ERROR	The protocol list is automatically printed out after communication only if a communication error occurs.
3: ON	The protocol list is automatically printed out after communication.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U650	**Setting the system 1**

Description

Makes settings for fax reception regarding the sizes of the fax paper and received images and automatic printing of the protocol list.

Start

1. Press the start key. The screen for selecting an item is displayed.
2. Select an item using the cursor up/down keys.
3. Press the start key. The screen for the selected item is displayed.

Display	Description
CUT LINE (100%)	Sets the number of lines to be ignored when receiving a fax at 100% magnification.
CUT LINE (AUTO)	Sets the number of lines to be ignored when receiving a fax in the auto reduction mode.
CUT LINE (A4)	Sets the number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode.
RX WIDTH 11"	Sets the recording width for inch specifications.
PROTOCOL LIST PRT	Sets the automatic printing of the protocol list.

Setting the number of lines to be ignored when receiving a fax at 100% magnification

Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when recording the data at 100% magnification. If the number of excess lines is below the setting, those lines are ignored. If over the setting, they are recorded on the next page.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting	Change in value per step
Number of lines to be ignored when receiving at 100%	0 to 22	3	6 lines

   Increase the setting if a blank second page is received, and decrease it if the received image does not include the entire transmitted data.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of lines to be ignored when receiving a fax in the auto reduction mode

Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when the data is recorded in the auto reduction mode. If the number of excess lines is below the setting, those lines are ignored. If over the setting, the entire data on a page is further reduced so that it can be recorded on the same page.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting	Change in value per step
Number of lines to be ignored when receiving in the auto reduction mode	0 to 22	3	6 lines

   Increase the setting if a page received in the reduction mode is over-reduced and too much trailing edge margin is left. Decrease it if the received image does not include all transmitted data.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U617	**Outputting lists** **Description** Outputs a list of data regarding fax transmissions. **Purpose** Used to check conditions of use, settings and transmission procedures of the fax. **Method** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys.

Display	Description
SETTING LIST	Outputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information.
ACTION LIST	Outputs a list of error history, transmission line details and other information.
MONITOR LIST	Outputs a list of transmission speeds, resolutions, minimum transmission time and other information.
SELF ST RPT	Outputs a list of settings in maintenance mode (own-status report) regarding fax transmission only.
PROTOCOL LIST	Outputs a list of transmission procedures.
ABBR DIAL ECM LIST	Outputs a list of ECM settings for abbreviated dialing.
1TOUCH DIAL ECM LIST	Outputs a list of ECM settings for one-touch dialing.

3. Press the start key. The selected list is output.

<table>
<tr><th>Maintenance Item No.</th><th>Description</th></tr>
<tr><td>U615 (cont.)</td><td>
Setting for a PBX
Selects the mode to connect an outside call when connected to a PBX.
According to the type of the PBX connected, select the mode to connect an outside call.
1. Change the setting using the numeric keys.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>1: EARTH</td><td>Earth mode</td></tr>
<tr><td>2: FLS</td><td>Flashing mode</td></tr>
<tr><td>3: LOOP</td><td>Code number mode</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U616</td><td>
Adjusting the ratio of make-to-break of dial pulses
Description
Adjusts the ratio of make-to-break (ratio of make in pulse cycles) of dial pulses.
Purpose
Change the setting if dial pulse transmission problems occur. Note that 20 PPS is for Japanese specifications only and no setting is necessary for other specifications.
Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select an item using the cursor up/down keys.
3. Press the start key. The screen for the selected item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MAKE TIME (10 PPS)</td><td>Make time (10 PPS)</td></tr>
<tr><td>MAKE TIME (20 PPS)</td><td>Make time (20 PPS)</td></tr>
</table>
Setting
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th></tr>
<tr><td>Make time in the pulse cycle (10 PPS)</td><td>1 to 99 (ms)</td></tr>
<tr><td>Make time in the pulse cycle (20 PPS)</td><td>1 to 49 (ms)</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance Item No.	Description
U615	**Setting the NCU** **Description** Makes setting regarding the network control unit (NCU). **Purpose** To be set when installing the facsimile kit. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
EXCHANGE	Sets the connection to PBX/PSTN.
DIAL TONE	Sets PSTN dial tone detection.
BUSY TONE	Sets busy tone detection.
PBX SETTING	Setting for a PBX.

Setting the connection to PBX/PSTN

Selects if a fax is to be connected to either a PBX or public switched telephone network.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: PSTN	Connected to the public switched telephone network.
2: PBX	Connected to a PBX.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting PSTN dial tone detection

Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to a public switched telephone network.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	Detects the dial tone.
2: OFF	Does not detect the dial tone.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting busy tone detection

When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected, or the busy tone is not detected and the line remains connected until T0 time-out time.
Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be prevented. However, the line is not disconnected within the T0 time-out time even if the destination line is busy.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	Detects busy tone.
2: OFF	Does not detect busy tone.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U614	**Adjusting the DTMF output level** **Description** Adjusts the DTMF output level of a push-button dial telephone. **Purpose** No change is necessary from the factory default. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. **Setting** 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Display	Description
SGL LVL DTMF (H)	Adjusts the DTMF (high-frequency group) output level.
SGL LVL DTMF (L)	Adjusts the DTMF (low-frequency group) output level.

Setting	DTMF (high-/low-frequency group) output level
12	2.0 dBm
11	1.5 dBm
10	1.0 dBm
9	0.5 dBm
8	0 dBm
7	–0.5 dBm
6	–1.0 dBm
5	–1.5 dBm
4	–2.0 dBm

Maintenance Item No.	Description
U612	**Setting the modem detection level** **Description** Sets the modem detection level. **Purpose** Used to improve the transmission performance when a low quality line is used. **Method** Press the start key. The current setting is displayed. **Setting** 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. **Completion** Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

Display	Description
1: 33	–33 dBm
2: 38	–38 dBm
3: 43	–43 dBm
4: 47	–47 dBm

U613 **Setting the DTMF output level**

Description
Sets the DTMF output level of a push-button dial telephone.

Purpose
Used if problems occur when sending a signal with a push-button dial telephone.

Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select an item using the cursor up/down keys.
3. Press the start key. The screen for the selected item is displayed.

Display	Description
DTMF TX LEVEL (H)	Sets the DTMF (high-frequency group) output level.
DTMF TX LEVEL (L)	Sets the DTMF (low-frequency group) output level.

Setting
1. Change the setting using the numeric keys.

Description	Setting range
DTMF (high-/low-frequency group) output level	0 to 255

E.g.: When set to 8, the DTMF output level is –8 dBm.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U611	**G3 cable equalizer** **Description** Sets the G3 cable equalizer. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. **Display** / **Description** REG. G3 TX EQR — Sets the G3 transmission cable equalizer. REG. G3 RX EQR — Sets the G3 reception cable equalizer. **Setting the G3 transmission cable equalizer** Perform the following adjustment to make the equalizer compatible with the line characteristics. 1. Change the setting using the numeric keys. **Display** / **Description** 1: 0 — 0 km 2: 18 — 1.8 km 3: 36 — 3.6 km 4: 72 — 7.2 km 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the G3 reception cable equalizer** Perform the following adjustment to make the equalizer compatible with the line characteristics. 1. Change the setting using the numeric keys. **Display** / **Description** 1: 0 — 0 km 2: 18 — 1.8 km 3: 36 — 3.6 km 4: 72 — 7.2 km 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U610	**Setting the modem output level** **Description** Sets the modem output level. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
SGL LEVEL MODEM	Sets the modem output level.
SGL OUTPUT ADJ	Adjusts the modem output level.

Setting the modem output level

To be set when installing the machine in order to adapt to the line characteristics.

1. Change the setting using the numeric keys.

Description	Setting range
Modem output level	4 to 12

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Adjusting the modem output level

No change is necessary from the factory default.

1. Change the setting using the numeric keys.

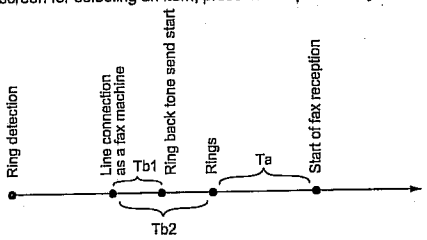
Setting	Output level
12	1.0 dBm
11	0.75 dBm
10	0.5 dBm
9	0.25 dBm
8	0 dBm
7	–0.25 dBm
6	–0.5 dBm
5	–0.75 dBm
4	–1.0 dBm

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U609 (cont.)	**Setting the Tc time-out time** In the TAD mode, set the time to check if there are any triggers for shifting to fax reception after a connected telephone receives a call. Only the telephone function is available if shifting is not made within the set Tc time. In the TAD mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys. Description / Setting range / Initial setting Tc time-out time / 1 to 255 s / 60 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the Td time-out time** Sets the length of the time required to determine silent status (fax), one of the triggers for Tc time check. In the TAD mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. Be sure not to set it too short; otherwise, the mode may be shifted to fax while the unit is being used as a telephone. 1. Change the setting using the numeric keys. Description / Setting range Td time-out time / 1 to 255 s 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U609 (cont.)	**Setting the T2 time-out time** The T2 time-out time decides the following. • From CFR signal output to image data reception • From image data reception to the next signal reception • In ECM, from RNR signal detection to the next signal reception 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the Ta time-out time** In the fax/telephone auto select mode, sets the time to continue ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-1). A fax signal is received within the Ta set time, or the fax mode is selected automatically when the time elapses. In fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.  **Figure 1-3-1 Ta/Tb1/Tb2 time-out time** **Setting the Tb1 time-out time** In the fax/telephone auto select mode, sets the time to start sending the ring back tone after receiving a call as a fax machine (see figure 1-3-1). In fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the Tb2 time-out time** In the fax/telephone auto select mode, sets the time to start ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.

Description	Setting range	Initial setting	Change in value per step
T2 time-out time	1 to 255	69	100 ms

Description	Setting range	Initial setting
Ta time-out time	1 to 255 s	30

Description	Setting range	Initial setting	Change in value per step
Tb1 time-out time	1 to 255	20	100 ms

Description	Setting range	Initial setting	Change in value per step
Tb2 time-out time	1 to 255	80	100 ms

<table>
<tr><th>Maintenance Item No.</th><th>Description</th></tr>
<tr><td>U608 (cont.)</td><td>
Setting the frequency of the CED signal
Sets the frequency of the CED signal. Used as one of the measures to improve transmission performance for international communications.
1. Enter 1 or 2 using the numeric keys to change the frequency.
<table>
<tr><th>Display</th><th>Frequency of the CED signal</th></tr>
<tr><td>1: 2100
2: 1100</td><td>2100 Hz
1100 Hz</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U609</td><td>
Setting communication time
Description
Sets the time-out time for fax transmission.
Purpose
Used mainly to improve transmission performance for international communications.
Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select an item using the cursor up/down keys.
3. Press the start key. The screen for the selected item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>T0</td><td>Sets the T0 time-out time.</td></tr>
<tr><td>T1</td><td>Sets the T1 time-out time.</td></tr>
<tr><td>T2</td><td>Sets the T2 time-out time.</td></tr>
<tr><td>Ta</td><td>Sets the Ta time-out time.</td></tr>
<tr><td>Tb1</td><td>Sets the Tb1 time-out time.</td></tr>
<tr><td>Tb2</td><td>Sets the Tb2 time-out time.</td></tr>
<tr><td>Tc</td><td>Sets the Tc time-out time.</td></tr>
<tr><td>Td</td><td>Sets the Td time-out time.</td></tr>
</table>
Setting the T0 time-out time
Sets the time before detecting a DIS signal after a dialing signal is sent. Depending on the quality of the exchange, or when the auto select function is selected at the destination unit, a line can be disconnected. Change the setting to prevent this problem.
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th></tr>
<tr><td>T0 time-out time</td><td>30 to 90 s</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Setting the T1 time-out time
Sets the time before receiving the correct signal after call reception. No change is necessary for this maintenance item.
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th></tr>
<tr><td>T1 time-out time</td><td>30 to 90 s</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
</td></tr>
</table>

Maintenance Item No.	Description
U608 (cont.)	**Setting the waiting period to prevent echo problems at the sender** Sets the period before a DCS signal is sent after a DIS signal is received. Used when problems occur due to echoes at the sender. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the waiting period to prevent echo problems at the receiver** Sets the period before an NSF, CSI or DIS signal is sent after a CED signal is received. Used when problems occur due to echoes at the receiver. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting ECM transmission** To be set to OFF when reduction of transmission costs is of higher priority than image quality. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting ECM reception** To be set to OFF when reduction of transmission costs is of higher priority than image quality. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the criteria for receiving a TCF signal 1** Sets the maximum number of error bytes judged acceptable when receiving a TCF signal. Used as a measure to ease transmission conditions if transmission errors occur. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.

Display	Description
1: 500	Sends a DCS 500 ms after receiving a DIS.
2: 300	Sends a DCS 300 ms after receiving a DIS.

Display	Description
1: 500	Sends an NSF, CSI or DIS 500 ms after receiving a CED.
2: 75	Sends an NSF, CSI or DIS 75 ms after receiving a CED.

Display	Description
1: ON	ECM transmission is enabled.
2: OFF	ECM transmission is disabled.

Display	Description
1: ON	ECM reception is enabled.
2: OFF	ECM reception is disabled.

Description	Setting range
Number of errors as a criterion for a TCF signal	0 to 255

Maintenance item No.	Description
U608	**Setting transmission** **Description** Makes settings regarding fax transmission. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
ERROR	Sets the method to process errors.
DIS-2 RES	Sets the number of times of DIS signal reception.
RTN CHECK	Sets the reference for RTN signal output.
TX ECHO	Sets the waiting period to prevent echo problems at the sender.
RX ECHO	Sets the waiting period to prevent echo problems at the receiver.
ECM TX	Sets ECM transmission.
ECM RX	Sets ECM reception.
TCF CHECK	Sets the criteria for receiving a TCF signal 1.
CED FREQ.	Sets the frequency of the CED signal.

Setting the method to process errors

Selects if transmission is to be treated as an error if an RTN or PIN signal is received. If it is treated as an error, an alarm sounds and a transmission report is output.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: OK	Transmission is not treated as an error.
2: ERROR	Transmission is treated as an error.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of times of DIS signal reception

Sets the number of times to receive the DIS signal to once or twice. Used as one of the correction measures for transmission errors and other problems.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ONCE	Responds to the first signal.
2: TWICE	Responds to the second signal.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the reference for RTN signal output

Sets the error line rate as the reference for RTN signal output. If transmission errors occur frequently due to the quality of the line, they can be reduced by lowering this setting.

1. Change the setting using the numeric keys.

Display	Description
1: 5	Error line rate of 5%
2: 10	Error line rate of 10%
3: 15	Error line rate of 15%
4: 20	Error line rate of 20%

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U607 (cont.)	**Setting the mode for remote switching** Sets the signal detection method for remote switching. Be sure to change the setting according to the type of telephone connected to the machine. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the transmission intervals** Sets the minimum time required for connection to the line for the next transmission after the previous transmission was completed. Change the setting if transmission problems occur during multi-transmission, such as broadcasting and polling transmission, or reserved transmission. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the loop current detection before dialing** Sets if the loop current detection is performed before dialing. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the DIS signal to 4 bytes** Sets if bit 33 and later bits of the DIS/DTC signal are sent. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Display	Description
1: ONE	One-shot detection
2: CONT	Continuous detection

Display	Description
1: 10	10 s
2: 30	30 s
3: 70	70 s
4: 120	120 s

Display	Description
1: ON	Performs loop current detection before dialing.
2: OFF	Does not perform loop current detection before dialing.

Display	Description
1: ON	Bit 33 and later bits of the DIS/DTC signal are not sent.
2: OFF	Bit 33 and later bits of the DIS/DTC signal are sent.

Maintenance item No.	Description
U607	**Setting the system (communication 1)** **Description** Makes settings for fax transmission regarding the communication. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
INTERVAL	Sets the auto redialing interval.
TIMES	Sets the number of times of auto redialing.
TX SPEED	Sets the communication starting speed.
RX SPEED	Sets the reception speed.
REMOTE	Sets the mode for remote switching.
CALL INT	Sets the transmission intervals.
DC LOOP DETECT	Sets the loop current detection before dialing.
DIS 4BYTES FIXED	Sets the DIS signal to 4 bytes.

Setting the auto redialing interval

Change the setting to prevent the following problems: fax transmission is not possible due to too short redial interval, or fax transmission takes too much time to complete due to too long redial interval.

1. Change the setting using the numeric keys.

Description	Setting range
Redialing interval	1 to 9 min.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of times of auto redialing

1. Change the setting using the numeric keys.

Description	Setting range
Number of redialing	0 to 9

When set to 0, no redialing is performed.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the communication starting speed

Sets the initial communication speed when starting transmission. When the destination unit has V.34 capability, V.34 is selected for transmission, regardless of this setting.

1. Change the setting using the numeric keys.

Display	Description
1: 144	V.17, 14400 bps
2: 96	V.17, 9600 bps
3: 48	V.27ter, 4800 bps
4: 24	V.27ter, 2400 bps

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the reception speed

Sets the reception speed that the sender is informed of using the DIS or NSF signal. When the destination unit has V.34 capability, V.34 is selected, regardless of the setting.

1. Change the setting using the numeric keys.

Display	Description
1: 144	V.17, V.33, V.29, V.27ter
2: 96	V.29, V.27ter
3: 48	V.27ter
4: 24	V.27ter (fallback only)

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U606 (cont.)	**Setting if the image scanning quality in fax mode is initialized** Sets if the resolution is to be initialized when fax operation is complete. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting if the scanning density in fax mode is initialized** Sets if the scanning density is initialized when fax operation is complete. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting whether to skip unregistered abbreviated numbers and one-touch key numbers on the list** Sets whether to skip unregistered abbreviated numbers and one-touch key numbers on the list. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Display	Description
1: ON	Resolution is initialized.
2: OFF	Resolution is not initialized.

Display	Description
1: ON	Density is initialized.
2: OFF	Density is not initialized.

Display	Description
1: ON	Unregistered numbers are skipped.
2: OFF	Unregistered numbers are not skipped.

<table>
<tr><th>Maintenance Item No.</th><th>Description</th></tr>
<tr><td>U605 (cont.)</td><td>
Setting the continuous detection time for remote switching
Sets the detection time when continuous detection is selected for remote switching. (This setting item will be displayed, but the setting made is ineffective.)
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th></tr>
<tr><td>Continuous detection time for remote switching</td><td>0 to 255 ms</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Setting the initial condition of fax image scanning quality
Set to the resolution that is most frequently used by the user.
1. Change the setting using the numeric keys.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>1: S</td><td>Standard</td></tr>
<tr><td>2: F</td><td>Fine</td></tr>
<tr><td>3: SF</td><td>Super fine</td></tr>
<tr><td>4: UF</td><td>Ultra fine</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U606</td><td>
Setting the system (operation unit and display)
Description
Makes settings for fax transmission regarding the operation unit and display.
Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select an item using the cursor up/down keys.
3. Press the start key. The screen for the selected item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ALARM LED OFF</td><td>Sets the conditions under which an error indicator turns off.</td></tr>
<tr><td>DATE PATTERN</td><td>Sets the date format.</td></tr>
<tr><td>RESO. LOCK</td><td>Sets if the image scanning quality in fax mode is initialized.</td></tr>
<tr><td>DENS. LOCK</td><td>Sets if the scanning density in fax mode is initialized.</td></tr>
<tr><td>REPORT SKIP</td><td>Sets whether to skip unregistered abbreviated numbers and one-touch key numbers on the list.</td></tr>
</table>
Setting the conditions under which an error indicator turns off
1. Enter 1 or 2 using the numeric keys to change the setting.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>1: RESET</td><td>An error indicator turns off only when the reset key is pressed.</td></tr>
<tr><td>2: COMM</td><td>An error indicator turns off when any key is pressed, an original is inserted or the next transmission is started.</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Setting the date format
Selects the date format on the respective reports and sender's information record.
1. Change the setting using the numeric keys.
<table>
<tr><th>Display</th><th>Order</th></tr>
<tr><td>1: YMD</td><td>Year/month/day</td></tr>
<tr><td>2: MDY</td><td>Month/day/year</td></tr>
<tr><td>3: DMY</td><td>Day/month/year</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
</td></tr>
</table>

Maintenance Item No.	Description
U605 (cont.)	**Setting an alarm for when reception is completed** 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Selecting if auto reduction in the auxiliary direction is to be performed** Sets whether to receive a long document by automatically reducing it in the auxiliary direction or at 100% magnification. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the addition of an image to the report** Selects if an image is to be added to the transmission report. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the error report display format** Selects the format of the transmission report when a transmission error occurs. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the line-monitoring period** Sets the period to monitor the line. By monitoring a transmission from the start to the end, it can be checked whether the transmission was correct or not. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the one-shot detection time for remote switching** Sets the detection time when one-shot detection is selected for remote switching. (This setting item will be displayed, but the setting made is ineffective.) 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.

Display	Description
1: ON	An alarm rings.
2: OFF	An alarm does not ring.

Display	Description
1: ON	Auto reduction is performed if the received document is longer than the fax paper.
2: OFF	Auto reduction is not performed.

Display	Description
1: ON	Image added.
2: OFF	Image not added.

Display	Description
1: WORDS	Records an error message (BUSY, OK, ERROR or STOP).
2: CODE	Records a six-digit error code.
3: MIX	Records either an error message or code.

Display	Description
1: END	Until transmission is completed.
2: DIS	After dialing is completed until reception of a DIS signal.

Description	Setting range
One-shot detection time for remote switching	0 to 255 ms

Maintenance Item No.	Description
U604	**Clearing data** **Description** Initializes data related to the fax transmission such as transmission history and IDs. **Purpose** Used to clear the transmission history or if an ID has been forgotten. **Method** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. Initialization starts. When initialized, "COMPLETED" is displayed. 4. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
U605	**Setting the system (operational)** **Description** Makes settings for fax transmission regarding operation. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. **Setting how to proceed if memory becomes full during memory transmission** Used to select whether to send only stored data or to display an error indication and cancel transmission if memory becomes full during memory transmission. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.

Display	Description
COMM. REC	Clears the activity report, error list, action list, transmission history of each department as listed on the department control report, transmission history for displaying the transmission results, document number, timer program information, protocol list, and other transmission history such as image data, excluding items regarding the machine variation adjustment.
MANAGE PW	Initializes the cipher key password.
F-CONFI BOX ID	Initializes the F-code confidential box ID.
F-RELAY BOX ID	Initializes the F-code relay box ID.
ENCRIPT BOX ID	Initializes the encription box ID.

Display	Description
MEM. FULL	Sets how to proceed if memory becomes full during memory transmission.
FIN. ALARM	Sets an alarm for when reception is completed.
AUTO REDU	Selects if auto reduction in the auxiliary direction is to be performed.
ADD IMAGE	Sets for the addition of an image to the report.
ERR. CODE	Sets the error report display format.
MONITOR	Sets the line-monitoring period.
TIME (ONE)	Sets the one-shot detection time for remote switching.
TIME (CON)	Sets the continuous detection time for remote switching.
RESOLUT	Sets the initial condition of fax image scanning quality.

Display	Description
1: CONT	Whether to continue memory transmission or to clear the memory can be selected by the user.
2: STOP	Memory is forcibly cleared.

Maintenance Item No.	Description
U603	**Setting the user registration data** **Description** Makes user settings to enable the use of the copier as a fax. **Purpose** To be run after installation of the facsimile kit if necessary. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
SELF TEL No.	Sets the self telephone number.
LINE TYPE	Sets the type of telephone line.
RINGS (F/T) #	Sets the number of rings in fax/telephone auto select mode.
REMOTE DIAG	Sets remote diagnostic transmission.

Setting the self telephone number

1. Enter the telephone number using the numeric keys.
   Up to 20 digits can be entered.
   To correct the entered telephone number or to delete the stored telephone number, reset by pressing the stop/clear key.
2. Press the start key.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the type of telephone line

1. Change the setting using the numeric keys.

Display	Description
1: DTMF	DTMF
2: 10	10 PPS
3: 20	20 PPS

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of rings in the fax/telephone auto select mode

According to the user request, used to increase or decrease the time required to switch to a fax.

1. Change the setting using the numeric keys.

Description	Setting range
Number of fax/telephone rings	0 to 15

   When set to 0, a fax is selected immediately after receiving a ring tone. Never set the number of fax/telephone rings to 0 on European specification models.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting remote diagnostic transmission

1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.

Display	Description
1: ON	Remote diagnostic transmission is enabled.
2: OFF	Remote diagnostic transmission is disabled.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description
U602	**Setting factory defaults** **Description** Initializes software switches other than that for machine data and the SRAM on the fax control PCB, according to the destination and OEM. **Purpose** Used to initialize the fax control PCB to the factory default. **Method** 1. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key. 2. After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later. INI. SHIP DATA COMPLETED 000:000 INI. SHIP DATA COMPLETED V1.00

Maintenance Item No.	Description
U600 (cont.)	**Destination code list**

Code	Destination	Code	Destination
000	Japan	253	CTR21 (European nations)
009	Australia		Italy
032	Canada		Germany
070	Greece		Spain
080	Hong Kong		U.K.
084	Indonesia		Netherlands
088	Israel		Sweden
108	Malaysia		France
126	New Zealand		Austria
136	Peru		Switzerland
137	Philippines		Belgium
152	Middle East		Denmark
156	Singapore		Finland
159	South Africa		Portugal
169	Thailand		Ireland
181	U.S.A.		Norway
242	South America	254	Taiwan
243	Saudi Arabia		

U601 — **Initializing permanent data**

Description
Initializes software switches other than that for machine data on the fax control PCB according to the destination and OEM.

Purpose
Used to initialize the fax control PCB without changing user registration data and factory settings.

Method
1. Press the start key. The screen for entering the destination code is displayed.
   Enter a destination code using the numeric keys (refer to the destination code list on page 1-3-5 for the destination code).

   ```
   INI.   KEEP  DATA
   COUNTRY CODE:000
   ```

2. Press the start key. The screen for entering the OEM code is displayed.
   There is no operation necessary on this screen.

   ```
   INI.   KEEP  DATA
   OEM CODE:000
   ```

3. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.
4. After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later.

   ```
   INI.   KEEP  DATA
   COMPLETED 000:000
   ```

   ```
   INI.   KEEP  DATA
   COMPLETED V1.00
   ```

Caution
If initialized with "000" (code for Japan) entered as the destination code, service call code C082 (fax control PCB problem) will be detected. Be sure to enter the correct destination code. If C082 (fax control PCB problem) is detected, press the COPY/FAX switching key to put the machine in the copy mode, open the front cover and then execute this maintenance item again to enter the correct destination code and initialize data.

(2) Contents of maintenance mode items

Maintenance Item No.	Description
U600	**Initializing all data** **Description** Initializes software switches and all data in the SRAM on the fax control PCB, according to the destination and OEM. **Purpose** Used to initialize the fax control PCB. **Method** 1. Press the start key. The screen for entering the destination code is displayed. Enter a destination code using the numeric keys (refer to the destination code list on page 1-3-5 for the destination code). INI. ALL DATA COUNTRY CODE:000 2. Press the start key. The screen for entering the OEM code is displayed. There is no operation necessary on this screen. INI. ALL DATA OEM CODE:000 3. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key. 4. After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later. INI. ALL DATA COMPLETED 000 :000 INI. ALL DATA COMPLETED V1.00 **Caution** If initialized with "000" (code for Japan) entered as the destination code, service call code C082 (fax control PCB problem) will be detected. Be sure to enter the correct destination code. If C082 (fax control PCB problem) is detected, press the COPY/FAX switching key to put the machine in the copy mode, open the front cover and then execute this maintenance item again to enter the correct destination code and initialize data.

Section	Item No.	Maintenance item contents	Initial setting
Fax	U894	Performing board test • Performing tests on SRAM and DRAM • Performing tests on optional memory	 — —
Others	U914	Switching between fax/copier modes	copier
	U992	Checking or clearing the printer/fax count	—

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Section	Item No.	Maintenance item contents	Initial setting
Fax	U610	Setting the modem output level • Setting the modem output level • Adjusting the modem output level	 — —
	U611	G3 cable equalizer • Setting the G3 transmission cable equalizer • Setting the G3 reception cable equalizer	 — —
	U612	Setting the modem detection level	—
	U613	Setting the DTMF output level • Setting the DTMF (high-frequency group) output level • Setting the DTMF (low-frequency group) output level	 — —
	U614	Adjusting the DTMF output level • Adjusting the DTMF (high-frequency group) output level • Adjusting the DTMF (low-frequency group) output level	 — —
	U615	Setting the NCU • Setting the connection to PBX/PSTN • Setting PSTN dial tone detection • Setting busy tone detection • Setting for a PBX	 — — — —
	U616	Adjusting the ratio of make-to-break of dial pulses • Make time (10 PPS) • Make time (20 PPS)	 — —
	U617	Outputting lists • Settings list • Action list • Monitor list • Own-status report • Protocol list • Abbreviated dialing ECM setting list • One-touch dialing ECM setting list	 — — — — — — —
	U650	Setting the system 1 • Setting the number of lines to be ignored when receiving a fax at 100% magnification • Setting the number of lines to be ignored when receiving a fax in the auto reduction mode • Setting the number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode • Setting the recording width for inch specifications • Setting automatic printing of the protocol list	 3 3 3 — —
	U651	Setting the system 2 • Setting the variation range in the auxiliary scanning direction for rotation reception • Setting the number of adjustment lines for automatic reduction • Setting the number of adjustment lines for automatic reduction when A4 paper is set • Setting the number of adjustment lines for automatic reduction when letter size paper is set	 3 7 22 26
	U660	Setting the system (communication 2) • Setting the criteria for receiving a TCF signal 2 • Setting the short protocol transmission • Setting the reception of a short protocol transmission • Setting the CNG detection times in the fax/ telephone auto select mode • Turning ECM for abbreviated dialing on/off • Turning ECM for one-touch dialing on/off	 — — — — — —
	U670	Setting the system (communication 3) • Setting if V.34 transmission is avallable • Setting the V.34 symbol speed (3429 Hz) • Setting the V.34 symbol speed (3200 Hz) • Setting the V.34 symbol speed (3000 Hz) • Setting the V.34 symbol speed (2800 Hz)	 — — — — —
	U680	Displaying the fax board ROM version	—

fax sys B 2030

1-3-1 Maintenance mode

(1) Maintenance mode item list

Section	Item No.	Maintenance item contents	Initial setting*
Fax	U600	Initializing all data	—
	U601	Initializing permanent data	—
	U602	Setting factory defaults	—
	U603	Setting the user registration data • Setting the self telephone number • Setting the type of telephone line • Setting the number of rings in the fax/telephone auto select mode • Setting remote diagnostic transmission	 — — — —
	U604	Clearing data • Clearing transmission history • Initializing the cipher key password • Initializing the F-code confidential box ID • Initializes the F-code relay box ID • Initializes the encription box ID	 — — — — —
	U605	Setting the system (operational) • Setting how to proceed if memory becomes full during memory transmission • Setting an alarm for when reception is completed • Selecting if auto reduction in the auxiliary direction is to be performed • Setting the addition of an image to the report • Setting the error report display format • Setting the line-monitoring period • Setting the one-shot detection time for remote switching • Setting the continuous detection time for remote switching • Setting the initial condition of fax image scanning quality	 — — — — — — — — —
	U606	Setting the system (operation unit and display) • Setting the conditions under which an error indicator turns off • Setting the date format • Setting if the image scanning quality in fax mode is initialized • Setting if the scanning density in fax mode is initialized • Setting whether to skip unregistered abbreviated numbers and one-touch key numbers on the list	 — — — — —
	U607	Setting the system (communication 1) • Setting the auto redialing interval • Setting the number of times of auto redialing • Setting the communication starting speed • Setting the reception speed • Setting the mode for remote switching • Setting the transmission intervals • Sets the loop current detection before dialing • Sets the DIS signal to 4 bytes	 — — — — — — — —
	U608	Setting transmission • Setting the method to process errors • Setting the number of times of DIS signal reception • Setting the reference for RTN signal output • Setting the waiting period to prevent echo problem at the sender • Setting the waiting period to prevent echo problem at the receiver • Setting ECM transmission • Setting ECM reception • Setting the criteria for receiving a TCF signal 1 • Setting the frequency of the CED signal	 — — — — — — — — —
	U609	Setting communication time • Setting the T0 time-out time • Setting the T1 time-out time • Setting the T2 time-out time • Setting the Ta time-out time • Setting the Tb1 time-out time • Setting the Tb2 time-out time • Setting the Tc time-out time • Setting the Td time-out time	 — — 69 30 20 80 60 —

Code	Contents	Remarks	
		Causes	Check procedures/corrective measures
C083	**Flash ROM program area checksum error** • A checksum error occurred with the program in the flash ROM on the fax control PCB.	Defective SRAM on the fax control PCB.	Replace the fax control PCB and check for correct operation.

1-5-1 Self-diagnosis

(1) Self diagnostic codes

Code	Contents	Remarks	
		Causes	Check procedures/corrective measures
C003	**Fax control PCB system problem** • Processing with the fax software was disabled due to a hardware or software problem.	Defective fax control PCB.	Replace the fax control PCB and check for correct operation.
C005	**Communication problem between the operation unit PCB and fax control PCB** • The operation unit PCB did not receive any key request command from the fax control PCB within 1 minute of the status change signal turning on. Then, after resetting the fax machine, the operation unit PCB again did not receive any key request command from the fax control PCB while the status change signal was held on for 1 minute. • Abnormal data was received 5 times in succession in response to the command from the fax control PCB. • An erroneous FAX READY signal continued for 3 seconds and, after resetting the fax machine, an erroneous FAX READY signal continued for 3 seconds again.	Defective fax control PCB.	Replace the fax control PCB and check for correct operation.
C006	**Communication problem between the main PCB and fax control PCB** When the facsimile is in the condition given below, the correct status was not received after 5 transmission retries. • When a communication error, such as a parity error, occurs while receiving status. • When no status is sent back within 100 ms of sending a command. • When the interval of status reception data exceeds 30 ms.	Defective fax control PCB.	Replace the fax control PCB and check for correct operation.
C013	**Fax control PCB software switch checksum error** • A checksum error occurred with the software switch value stored in the flash ROM on the fax control PCB.	Defective SRAM on the fax control PCB.	Replace the fax control PCB and check for correct operation.
C082	**Fax control PCB CG ROM checksum error** • A checksum error occurred with the CG ROM data in the flash ROM on the fax control PCB.	Defective fax control PCB.	Replace the fax control PCB and check for correct operation.

(2-7) U017XX error code table: V.34 transmission

Error code	Description
U01700	A communication error occurred in phase 2 (line probing).
U01720	A communication error occurred in phase 4 (modem parameter exchange).
U01721	Operation was interrupted due to the absence of a common communication speed between units.

U01700: A communication error that occurs at the transmitting unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/A/Abar (B/Bbar, for polling transmission)/INFOh was not detected.
U01720: A communication error that occurs at the transmitting unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.
U01721: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange; 1) a DCN signal was received from the destination unit, and the line was cut; or 2) a DIS (NSF, CSI) signal was received from the destination unit and, in response to the signal, the unit transmitted a DCN signal, and the line was cut.

(2-8) U018XX error code table: V.34 reception

Error code	Description
U01800	A communication error occurred in phase 2 (line probing).
U01810	A communication error occurred in phase 3 (primary channel equivalent device training).
U01820	A communication error occurred in phase 4 (modem parameter exchange).
U01821	Operation was interrupted due to the absence of a common communication speed between units.

U01800: A communication error that occurs at the receiver unit in the period after transmission of INFO0 before entering phase 3 (primary channel equivalent device training). For example, INFO0/B/Bbar (A/Abar, for polling reception)/probing tone was not detected.
U01810: A communication error that occurs at the receiver unit in phase 3 (primary channel equivalent device training). For example, S/Sbar/PP/TRN was not detected.
U01820: A communication error that occurs at the receiver unit in the period after initiating the control channel before entering the T.30 process. For example, PPh/ALT/MPh/E was not detected.
U01821: In the absence of a common communication speed between units (including when an impossible combination of communication speed and symbol speed occurs) after MPh exchange, a DCN signal was transmitted to the destination unit and the line was cut.

(2-9) U044XX error code table: Encrypted transmission

Error code	Description
U04400	Encrypted transmission was interrupted because encryption keys did not agree.
U04401	Calling failed during encrypted transmission because the encryption key was not registered.

Error code	Description
U01191	Communication was interrupted because an error occurred during an image data reception sequence in the V.34 mode.
U01199	A DIS signal with different FIF was received after transmission of a DIS signal.

(2-6) U011XX error code table: G3 reception

Error code	Description
U01100	Function of the unit differs from that indicated by a DCS signal.
U01101	Function of the unit (excl. communication mode select) differs from that indicated by an NSS signal.
U01102	A DTC (NSC) signal was received when no transmission data was in the unit.
U01110	No response after transmission of a DIS signal.
U01111	No response after transmission of a DTC (NSC) signal.
U01112	No training reception after reception of a DCS or NSS signal.
U01113	No response after transmission of an FTT signal.
U01114	No message reception after transmission of a CFR signal.
U01115	No message reception after transmission of an MCF signal.
U01116	No message reception after transmission of a PPR signal.
U01117	No message reception after transmission of a CTR signal.
U01118	No message reception after transmission of an ERR signal.
U01119	No further signals were received after reception of a message.
U01120	No response after transmission of an MCF signal.
U01121	No response after transmission of an RTP signal.
U01122	No response after transmission of an RTN signal.
U01123	No response after transmission of a PIP signal.
U01124	No response after transmission of a PIN signal.
U01125	No response after transmission of a CNS signal (between units of our make).
U01126	No response after transmission of a PPR signal (ECM).
U01127	No response after transmission of an ERR signal (ECM).
U01128	No response after transmission of an RNR signal (ECM).
U01129	No response after transmission of an SPA signal (short protocol).
U01140	A DCN signal was received after transmission of a DIS signal.
U01141	A DCN signal was received after transmission of a DTC signal.
U01142	A DCN signal was received after transmission of a DCS or NSS signal.
U01143	A DCN signal was received after transmission of an FTT signal.
U01144	A DCN signal was received after transmission of a CFR signal.
U01145	A DCN signal was received after reception of a message.
U01146	A DCN signal was received after transmission of an MCF signal (interoffice communication after reception of an MPS, EOM signal or confidential interoffice communication).
U01147	A DCN signal was received after transmission of an RTP signal.
U01148	A DCN signal was received after transmission of an RTN signal.
U01149	A DCN signal was received after transmission of a PIP signal.
U01150	A DCN signal was received after transmission of a PIN signal.
U01151	A DCN signal was received after transmission of a PPR signal (ECM).
U01152	A DCN signal was received after transmission of a CTR signal (ECM).
U01153	A DCN signal was received after transmission of an ERR signal (ECM).
U01154	A DCN signal was received after transmission of an RNR signal (ECM).
U01155	A DCN signal was received after transmission of an SPA signal (short protocol).
U01160	During message reception, transmission time exceeded the maximum transmission time per line.
U01161	Number of error lines exceeded limits during message reception.
U01162	A break in loop current was detected during message reception.
U01163	Polarity reversal was detected during message reception.
U01164	One page length exceeded the specified length during message reception.
U01170	A decoding error occurred during MMR message reception.
U01172	During reverse polling in V.34 mode at the transmitting unit, a JM signal was not detected after transmission of a CM signal when receiving after transmission.

Error code	Description
U01045	A DCN or other inappropriate signal was received after transmission of an MPS signal.
U01046	A DCN or other inappropriate signal was received after transmission of an EOM signal.
U01047	A DCN or other inappropriate signal was received after transmission of an EOP signal.
U01048	A DCN signal was received after transmission of a PRI-EOP signal.
U01049	A DCN signal was received after transmission of a CNC signal (between units of our make).
U01050	A DCN signal was received after transmission of a CTC signal (ECM).
U01051	A DCN signal was received after transmission of an EOR.Q signal (ECM).
U01052	A DCN signal was received after transmission of an RR signal (ECM).
U01053	A DCN signal was received after transmission of a PPS.NULL signal (ECM).
U01054	A DCN signal was received after transmission of a PPS.MPS signal (ECM).
U01055	A DCN signal was received after transmission of a PPS.EOM signal (ECM).
U01056	A DCN signal was received after transmission of a PPS.EOP signal (ECM).
U01057	A DCN signal was received after transmission of a PPS.PRI-EOP signal (ECM).
U01070	Polarity reversal was detected during handshake.
U01071	Polarity reversal was detected during message transmission.
U01072	A break in loop current was detected during transmission.
U01073	During reverse polling in V.34 mode at the receiver unit, a CM signal was not detected when transmitting after reception.
U01080	A PIP signal was received after transmission of a PPS.NULL signal.
U01091	During transmission in V.34 mode, communication was interrupted because a PPR signal was received over 10 times even after reducing the communication speed to the minimum with the symbol speed maintained at the level of connection.
U01092	During transmission in V.34 mode, communication was interrupted because of an impossible combination of the symbol speed and communication speed.

(2-5) U010XX errror code table: G3 transmission

Error code	Description
U01000	An FTT signal was received for a set number of times after TCF signal transmission at 2400 bps. Or, an RTN signal was received in response to a Q signal (excluding EOP) after transmission at 2400 bps.
U01001	Function of the unit differs from that indicated by a DIS signal.
U01010	No relevant signal was received after transmission of a DNL (MPS or EOM) signal, and the preset number of command retransfers was exceeded (between units of our make).
U01011	No relevant signal was received after transmission of a DCS, TCF signal, and the preset number of command retransfers was exceeded.
U01012	No relevant signal was received after transmission of an NSS1, NSS2 (TCF) signal, and the preset number of command retransfers was exceeded (between units of our make).
U01013	No relevant signal was received after transmission of an NSS3, TCF signal, and the preset number of command retransfers was exceeded (between units of our make).
U01014	No relevant signal was received after transmission of an MPS signal, and the preset number of command retransfers was exceeded.
U01015	No relevant signal was received after transmission of an EOM signal, and the preset number of command retransfers was exceeded.
U01016	An MCF signal was received but no DIS signal was received after transmission of an EOM signal, and T1 timeout was detected.
U01017	No relevant signal was received after transmission of an EOP signal, and the preset number of command retransfers was exceeded.
U01018	No relevant signal was received after transmission of a PRI-EOP signal, and the preset number of command retransfers was exceeded.
U01019	No relevant signal was received after transmission of a CNC signal, and the preset number of command retransfers was exceeded (between units of our make).
U01020	No relevant signal was received after transmission of a CTC signal, and the preset number of command retransfers was exceeded (ECM).
U01021	No relevant signal was received after transmission of an EOR.Q signal, and the preset number of command retransfers was exceeded (ECM).
U01022	No relevant signal was received after transmission of an RR signal, and the preset number of command retransfers was exceeded (ECM).
U01023	No relevant signal was received after transmission of a PSS.NULL signal, and the preset number of command retransfers was exceeded (ECM).
U01024	No relevant signal was received after transmission of a PSS.MPS signal, and the preset number of command retransfers was exceeded (ECM).
U01025	No relevant signal was received after transmission of a PPS.EOM signal, and the preset number of command retransfers was exceeded (ECM).
U01026	No relevant signal was received after transmission of a PPS.EOP signal, and the preset number of command retransfers was exceeded (ECM).
U01027	No relevant signal was received after transmission of a PPS.PRI-EOP signal, and the preset number of command retransfers was exceeded (ECM).
U01028	T5 timeout was detected during ECM transmission (ECM).
U01040	A DCN or other inappropriate signal was received during standby for DIS signal reception.
U01041	A DCN signal was received after transmission of a DNL (MPS or EOM) signal (between units of our make).
U01042	A DCN signal was received after transmission of a DCS, TCF signal.
U01043	A DCN signal was received after transmission of an NSS1, NSS2 (TCF) signal (between units of our make).
U01044	A DCN signal was received after transmission of an NSS3, TCF signal (between units of our make).

(2-3) U008XX error code table: Page transmission error

Error code	Description
U00800	A page transmission error occurred because of reception of a RTN or PIN signal.
U00810	A page transmission error reoccurred after retry of transmission in the ECM mode.

(2-4) U009XX error code table: Page reception error

Error code	Description
U00900	An RTN or PIN signal was transmitted because of a page reception error.
U00910	A page reception error remained after retry of transmission in the ECM mode.

(2-1) U004XX error code table: interrupted phase B

Error code	Description
U00420	A relay request was received from the host center but interrupted because of a mismatch in permit ID or telephone number.
U00421	F-code based relay reception was interrupted because of a mismatch in the specified F-code relay box number.
U00430	A polling request was received but interrupted because of a mismatch in permit ID in the transmitting unit. Or, F-code based bulletin board transmission request was received but interrupted because of a mismatch in permit ID in the transmitting unit.
U00431	An F-code based bulletin board transmission was interrupted because the specified F-code confidential box was not registered.
U00432	An F-code based bulletin board transmission was interrupted because of a mismatch in F-code confidential box numbers.
U00433	F-code based bulletin board transmission request was received but data was not present in the F-code confidential box.
U00435	F-code based bulletin board transmission request was received but interrupted because the specified F-code confidential box was being accessed.
U00440	F-code based confidential reception or F-code based relay reception was interrupted because the specified F-code box was not registered.
U00450	The destination unit in password check transmission mode interrupted transmission because of a mismatch in permit ID.
U00460	Encrypted reception was interrupted because the specified encryption box number was not registered.
U00462	Encrypted reception was interrupted because the encryption key for the specified encryption box was not registered.

(2-2) U006XX error code table: Problems with the unit

Error code	Description
U00600	The SRDF cover is open.
U00601	Document jam or the document length exceeds the maximum.
U00602	Image scanning section problem.
U00603	No document feed.
U00604	Document length exceeded the limit of the bitmap memory capacity.
U00610	Recording section cover is open.
U00655	CTS was not activated after RTS due to a modem error.
U00656	Data was not transmitted after CTS was activated due to a modem error.
U00670	Power was cut off during communication.
U00677	There was no file to transmit in the memory transmission mode.
U00690	System error.

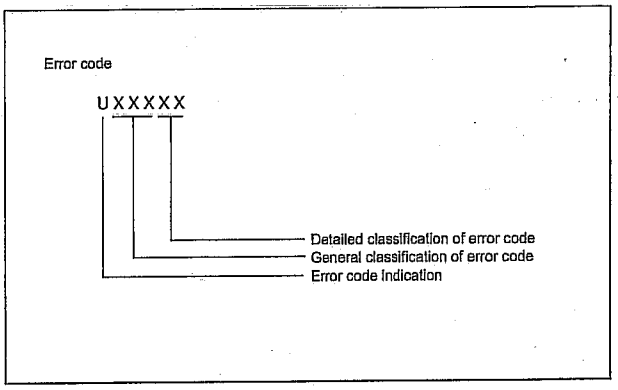
Error code	Description
U04200	In encrypted transmission, the specified encryption box was not registered in the destination unit.
U04300	Encrypted transmission failed because the destination unit had no encrypted communication capability.
U044XX	Communication was interrupted because of an encryption key error during encrypted transmission (refer to page 1-4-10 "U044XX error code table").
U04500	Encrypted reception was interrupted because of a mismatch in encryption keys.
U05100	Password check transmission was interrupted because the permit ID did not agree.
U05200	Password check reception was interrupted because the permit ID did not agree.
U05300	Destination unit in password check reception mode did not receive data because the permit ID did not agree.
U09000	G3 communication was attempted but failed because the destination unit was a G2 machine.
U12000	In F-code based relay reception, memory overflowed.
U14000	In F-code based confidential reception, memory overflowed.
U14100	In interoffice F-code based transmission, memory overflowed in the destination unit.
U19000	Memory overflowed during memory reception.
U19100	Memory overflowed in the destination unit during transmission.
U19200	Memory transmission failed because a decoding error occurred.
U19300	Transmission failed because an error occurred during JBIG encoding.
U19400	Reception failed because an error occurred during JBIG decoding.

(2) Table of general classification

Error code	Description
U00000	No response or busy after the set number of redials.
U00100	Transmission was interrupted by a press of the stop/clear key.
U00200	Reception was interrupted by a press of the stop/clear key.
U00300	Recording paper on the destination unit has run out during transmission.
U004XX	A connection was made but interrupted during handshake with the receiver unit (refer to page 1-4-4 "U004XX error code table").
U00500	Multiple communication was interrupted and call was not made on destination units after interruption.
U006XX	Communication was interrupted because of a machine problem (refer to page 1-4-4 "U006XX error code table").
U00700	Communication was interrupted because of a problem in the destination unit.
U008XX	A page transmission error occurred in G3 mode (refer to page 1-4-5 "U008XX error code table").
U009XX	A page reception error occurred in G3 mode (refer to page 1-4-5 "U009XX error code table").
U010XX	Transmission in G3 mode was interrupted by a signal error (refer to page 1-4-6 "U010XX error code table").
U011XX	Reception in G3 mode was interrupted by a signal error (refer to page 1-4-8 "U011XX error code table").
U012XX	Not used.
U013XX	Not used.
U01400	An invalid one-touch key was specified during communication.
U01500	A communication error occurred when calling in V.8 mode.
U01600	A communication error occurred when called in V.8 mode.
U017XX	A communication error occurred before starting T.30 protocol during transmission in V.34 mode (refer to page 1-4-10 "U017XX error code table").
U018XX	A communication error occurred before starting T.30 protocol during reception in V.34 mode (refer to page 1-4-10 "U018XX error code table").
U02200	F-code based relay broadcast transmission failed because the data registered in the F-code relay box was deleted.
U02400	An interoffice F-code based relay transmission was interrupted because of a mismatch in the specified relay box number.
U03000	No document was present in the destination unit when polling reception started.
U03200	In interoffice F-code based bulletin board reception, data was not stored in the box specified by the destination unit.
U03300	In polling reception from a unit of our make, operation was interrupted due to a mismatch in permit ID or telephone number. Or, in interoffice F-code based bulletin board reception, operation was interrupted due to a mismatch in permit ID or telephone number.
U03400	Polling reception was interrupted because of a mismatch in individual numbers (destination unit is either of our make or by another manufacturer).
U03500	In interoffice F-code based bulletin board reception, the specified F-code confidential box number was not registered in the destination unit.
U03600	An interoffice F-code based bulletin board reception was interrupted because of a mismatch in the specified F-code confidential box number.
U03700	Interoffice F-code based bulletin board reception failed because the destination unit had no F-code based bulletin board transmission capability, or data was not stored in any F-code confidential box in the destination unit.
U04000	In interoffice F-code based transmission mode, the specified F-code box number was not registered in the destination unit.
U04100	F-code based transmission failed because the destination unit had no F-code based reception capability.

1-4-1 Error codes

(1) Error code
Error codes are listed on the communication reports, activity report, etc. The codes consist of an error code indication "U" followed by a 5-digit number.
The upper three of the five digits indicate general classification of the error and its cause, while the lower two indicate the detailed classification. Items for which detailed classification is not necessary have "00" as the last two digits.



Maintenance item No.	Description
U914	**Switching between fax/copier modes** **Description** Switches between fax and copier modes when the facsimile kit is installed to use the copier as a fax. **Purpose** To be set according to frequency of use: set to the more frequently used mode. **Method** Press the start key. The screen for selecting an item is displayed. **Setting** 1. Select the mode (copier or fax) to be given priority using the cursor up/down keys. 2. Press the start key. The value is set, and the screen for selecting a maintenance item No. is displayed. **Completion** To exit this maintenance item without changing the current setting, press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U992	**Checking or clearing the printer/fax count** **Description** Displays, clears or changes the print count of the printer or fax when the printer board or facsimile kit is installed. **Purpose** To check the condition of use of the printer or fax. **Method** Press the start key. The print count of the printer or fax is displayed. **Setting** 1. Select the count to be changed using the cursor up/down keys. 2. Enter a six-digit numerical value using the numeric keys. To clear both of the printer and fax counts, press the reset key. 3. Press the start key. The count is set. **Completion** Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U894	**Performing board test** **Description** Performs tests on the SRAM, DRAM (image memory, bitmap memory) and optional memory on the fax control PCB. **Purpose** Used to check if reading and writing are performed correctly in respective installed memories. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. Display: BOARD MEMORY — Description: Performs tests on SRAM and DRAM. Display: BOARD OP. MEM — Description: Performs tests on optional memory. **Performing tests on SRAM and DRAM** 1. Press the start key. The test is performed and the results displayed as follows. • When the test result is OK: TEST MEMORY OK • If the test result is NG: TEST MEMORY NG DRAM IMG 0x****** ******: address DRAM IMG: DRAM (image memory) error DRAM B.M: DRAM (bitmap memory) error SRAM: SRAM error 2. To return to the screen for selecting an item, press the stop/clear key. **Performing tests on optional memory** 1. Press the start key. The test is performed and the result is displayed as follows. • When the test result is OK: TEST OPTION MEMORY OK • If the test result is NG: TEST OPTION MEMORY NG DRAM B.M 0x****** ******: address • If the test result is NG (memory is not installed): TEST OPTION MEMORY NG DRAM B.M 2. To return to the screen for selecting an item, press the stop/clear key. **Completion** If the test result is OK, press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed. If the test result is NG, reset by turning the main switch off and on.

<table>
<tr><th>Maintenance Item No.</th><th>Description</th></tr>
<tr><td>U670
(cont.)</td><td>
Setting the V.34 symbol speed (2800 Hz)
Sets if the V.34 symbol speed 2800 Hz is used.
1. Enter 1 or 2 using the numeric keys to change the setting.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>1: ON
2: OFF</td><td>V.34 symbol speed 2800 Hz is used.
V.34 symbol speed 2800 Hz is not used.</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U680</td><td>
Displaying the fax board ROM version
Description
Displays the version of the ROM on the fax control PCB.
Purpose
Used to check the version of the ROM on the fax control PCB.
Method
1. Press the start key. The version of the ROM on the fax control PCB is displayed.
Completion
Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance Item No.	Description
U670	**Setting the system (communication 3)** **Description** Makes settings for fax transmission regarding the communication. **Purpose** To reduce transmission errors when a low quality line is used. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys.

Display	Description
V.34 MODEM	Enables or disables V.34 communication.
V.34 SYMBOL 3429Hz	Sets the V.34 symbol speed (3429 Hz).
V.34 SYMBOL 3200Hz	Sets the V.34 symbol speed (3200 Hz).
V.34 SYMBOL 3000Hz	Sets the V.34 symbol speed (3000 Hz).
V.34 SYMBOL 2800 Hz	Sets the V.34 symbol speed (2800 Hz).

3. Press the start key. The screen for the selected item is displayed.

Enabling/disabling V.34 communication

Sets whether V.34 communication is enabled/disabled for transmission and reception.

1. Change the setting using the numeric keys.

Display	Description
1: ON	V.34 communication is enabled for both transmission and reception.
2: TX	V.34 communication is enabled for transmission only.
3: RX	V.34 communication is enabled for reception only.
4: OFF	V.34 communication is disabled for both transmission and reception.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the V.34 symbol speed (3429 Hz)

Sets if the V.34 symbol speed 3429 Hz is used.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	V.34 symbol speed 3429 Hz is used.
2: OFF	V.34 symbol speed 3429 Hz is not used.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the V.34 symbol speed (3200 Hz)

Sets if the V.34 symbol speed 3200 Hz is used.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	V.34 symbol speed 3200 Hz is used.
2: OFF	V.34 symbol speed 3200 Hz is not used.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the V.34 symbol speed (3000 Hz)

Sets if the V.34 symbol speed 3000 Hz is used.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	V.34 symbol speed 3000 Hz is used.
2: OFF	V.34 symbol speed 3000 Hz is not used.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U660 (cont.)	**Setting the CNG detection times in the fax/telephone auto select mode** Sets the CNG detection times in the fax/telephone auto select mode. 1. Change the setting using the numeric keys. Display: 1: 1 TIME — Description: Detects CNG once. Display: 2: 2 TIMES — Description: Detects CNG twice. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting ECM for each abbreviated number** Turns ECM on/off for each abbreviated number. 1. Enter a registered two-digit abbreviated number and press the start key. 2. Enter 1 or 2 using the numeric keys to change the setting. Display: 1: ON — Description: ECM communication is performed for all abbreviated numbers. Display: 2: OFF — Description: Disables the ECM for abbreviated numbers. 3. Press the start key. The value is set. The screen for entering an abbreviated number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering an abbreviated number. **Setting ECM for each one-touch key** Turns ECM on/off for each one-touch key. 1. Enter a registered two-digit one-touch key number and press the start key. 2. Enter 1 or 2 using the numeric keys to change the setting. Display: 1: ON — Description: ECM communication is performed for all one-touch keys. Display: 2: OFF — Description: Disables the ECM for one-touch keys. 3. Press the start key. The value is set. The screen for entering a one-touch key number is displayed. To return to the screen for selecting an item, press the stop/clear key at the screen for entering a one-touch key number. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U660	**Setting the system (communication 2)** **Description** Makes settings for fax transmission regarding the communication. **Purpose** To reduce transmission errors when a low quality line is used. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. Setting the criteria for receiving a TCF signal 2

Display	Description
TCF CHECK 2	Sets the criteria for receiving a TCF signal 2.
SHORT PROTOCOL TX	Sets the short protocol transmission.
SHORT PROTOCOL RX	Sets the reception of short protocol transmission.
NUMBER OF CNG (F/T)	Sets the CNG detection times in the fax/telephone auto select mode.
ABBR DIAL ECM SETTING	Turns ECM for abbreviated dialing on/off.
1-TOUCH DIAL ECM SETTING	Turns ECM for one-touch dialing on/off.

Setting the criteria for receiving a TCF signal 2

Sets the signal checking time as a criterion for a received TCF signal.

1. Enter 1 or 2 using the numeric key to change the setting.

Display	Description
1: LONG	Checks for 1.0 s.
2: SHORT	Checks for 0.8 s.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the short protocol transmission

Sets if short protocol transmission is performed.

1. Change the setting using the numeric keys.

Display	Description
1: ON	Short protocol transmission is performed.
2: OFF	Short protocol transmission is not performed.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the reception of a short protocol transmission

Selects whether to receive or ignore transmission using short protocol.

If a short protocol transmission is received when an auto switching device is attached to the machine, communication problems, including auto switching inability, sometimes occur. Change the setting to ignore short protocol transmission to prevent such problems.

1. Change the setting using the numeric keys.

Display	Description
1: ON	Receives short protocol transmission.
2: OFF	Ignores short protocol transmission.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance item No.	Description
U651	**Setting the system 2** **Description** Sets the variation range in rotation reception and the number of adjustment lines for automatic reduction. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
ROTATION RX ERR	Sets the variation range in the auxiliary scanning direction for rotation reception.
ADJ LINES	Sets the number of adjustment lines for automatic reduction.
ADJ LINES (A4)	Sets the number of adjustment lines for automatic reduction when A4 paper is set.
ADJ LINES (LT)	Sets the number of adjustment lines for automatic reduction when letter size paper is set.

Setting the variations range in rotation reception

Sets the maximum number of lines to be ignored when the received data exceeds the acceptable number of lines in the rotation reception mode. If the number of excessive lines is smaller than the set value, those lines are ignored and rotation reception is performed; if it is larger than the set value, rotation reception is not performed.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting
Number of variation lines in the auxiliary scanning direction	0 to 255	3

Even if rotation reception fails, it can be enabled by increasing this value, however, some parts of the received image may not be printed.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of adjustment lines for automatic reduction

Sets the number of adjustment lines for automatic reduction.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting
Number of adjustment lines for automatic reduction	0 to 22	7

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of adjustment lines for automatic reduction when A4 paper is set

Sets the number of adjustment lines for automatic reduction when A4 paper is set.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting
Number of adjustment lines for automatic reduction when A4 paper is set	0 to 22	22

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of adjustment lines for automatic reduction when letter size paper is set

Sets the number of adjustment lines for automatic reduction when letter size paper is set.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting
Number of adjustment lines for automatic reduction when letter size paper is set	0 to 26	26

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U650 (cont.)	**Setting the number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode** Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when the data is recorded in the auto reduction mode onto A4R or letter-size paper under the conditions below. If the number of excess lines is below the setting, those lines are ignored. If over the setting, the entire data on a page is further reduced so that it can be recorded on the same page. • With A4R present and folio absent in the drawers • With letter-size paper present and legal-size paper absent in the drawers 1. Change the setting using the numeric keys.

Description	Setting range	Initial setting	Change in value per step
Number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode	0 to 22	3	6 lines

Increase the setting if a page received in the reduction mode is over-reduced and too much trailing edge margin is left. Decrease it if the received image does not include all transmitted data.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the recording width for inch specifications

Sets the maximum recording width and processing method when 11" width fax paper is loaded on an inch-specification machine.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: 11 x 17	Communicates to the destination unit 11" width as A3 width and records at 100% magnifications.
2: B4	Communicates to the destination unit 11" width as B4 width.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the automatic printing of the protocol list

Sets if the protocol list is automatically printed out.

1. Change the setting using the numeric keys.

Display	Description
1: OFF	The protocol list is not printed out automatically.
2: ERROR	The protocol list is automatically printed out after communication only if a communication error occurs.
3: ON	The protocol list is automatically printed out after communication.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U650	**Setting the system 1** **Description** Makes settings for fax reception regarding the sizes of the fax paper and received images and automatic printing of the protocol list. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
CUT LINE (100%)	Sets the number of lines to be ignored when receiving a fax at 100% magnification.
CUT LINE (AUTO)	Sets the number of lines to be ignored when receiving a fax in the auto reduction mode.
CUT LINE (A4)	Sets the number of lines to be ignored when receiving a fax (A4R, letter) in the auto reduction mode.
RX WIDTH 11"	Sets the recording width for inch specifications.
PROTOCOL LIST PRT	Sets the automatic printing of the protocol list.

Setting the number of lines to be ignored when receiving a fax at 100% magnification

Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when recording the data at 100% magnification. If the number of excess lines is below the setting, those lines are ignored. If over the setting, they are recorded on the next page.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting	Change in value per step
Number of lines to be ignored when receiving at 100%	0 to 22	3	6 lines

Increase the setting if a blank second page is received, and decrease it if the received image does not include the entire transmitted data.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of lines to be ignored when receiving a fax in the auto reduction mode

Sets the maximum number of lines to be ignored if the received data volume exceeds the recording capacity when the data is recorded in the auto reduction mode. If the number of excess lines is below the setting, those lines are ignored. If over the setting, the entire data on a page is further reduced so that it can be recorded on the same page.

1. Change the setting using the numeric keys.

Description	Setting range	Initial setting	Change in value per step
Number of lines to be ignored when receiving in the auto reduction mode	0 to 22	3	6 lines

Increase the setting if a page received in the reduction mode is over-reduced and too much trailing edge margin is left. Decrease it if the received image does not include all transmitted data.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U617	**Outputting lists** **Description** Outputs a list of data regarding fax transmissions. **Purpose** Used to check conditions of use, settings and transmission procedures of the fax. **Method** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys.

Display	Description
SETTING LIST	Outputs a list of software switches, self telephone number, confidential boxes, ROM versions and other information.
ACTION LIST	Outputs a list of error history, transmission line details and other information.
MONITOR LIST	Outputs a list of transmission speeds, resolutions, minimum transmission time and other information.
SELF ST RPT	Outputs a list of settings in maintenance mode (own-status report) regarding fax transmission only.
PROTOCOL LIST	Outputs a list of transmission procedures.
ABBR DIAL ECM LIST	Outputs a list of ECM settings for abbreviated dialing.
1TOUCH DIAL ECM LIST	Outputs a list of ECM settings for one-touch dialing.

3. Press the start key. The selected list is output.

<table>
<tr><th>Maintenance Item No.</th><th>Description</th></tr>
<tr><td>U615
(cont.)</td><td>
Setting for a PBX
Selects the mode to connect an outside call when connected to a PBX.
According to the type of the PBX connected, select the mode to connect an outside call.
1. Change the setting using the numeric keys.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>1: EARTH
2: FLS
3: LOOP</td><td>Earth mode
Flashing mode
Code number mode</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U616</td><td>
Adjusting the ratio of make-to-break of dial pulses
Description
Adjusts the ratio of make-to-break (ratio of make in pulse cycles) of dial pulses.
Purpose
Change the setting if dial pulse transmission problems occur. Note that 20 PPS is for Japanese specifications only and no setting is necessary for other specifications.
Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select an item using the cursor up/down keys.
3. Press the start key. The screen for the selected item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>MAKE TIME (10 PPS)
MAKE TIME (20 PPS)</td><td>Make time (10 PPS)
Make time (20 PPS)</td></tr>
</table>
Setting
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th></tr>
<tr><td>Make time in the pulse cycle (10 PPS)
Make time in the pulse cycle (20 PPS)</td><td>1 to 99 (ms)
1 to 49 (ms)</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
</table>

Maintenance Item No.	Description
U615	**Setting the NCU** **Description** Makes setting regarding the network control unit (NCU). **Purpose** To be set when installing the facsimile kit. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
EXCHANGE	Sets the connection to PBX/PSTN.
DIAL TONE	Sets PSTN dial tone detection.
BUSY TONE	Sets busy tone detection.
PBX SETTING	Setting for a PBX.

Setting the connection to PBX/PSTN

Selects if a fax is to be connected to either a PBX or public switched telephone network.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: PSTN	Connected to the public switched telephone network.
2: PBX	Connected to a PBX.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting PSTN dial tone detection

Selects if the dial tone is detected to check the telephone is off the hook when a fax is connected to a public switched telephone network.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	Detects the dial tone.
2: OFF	Does not detect the dial tone.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting busy tone detection

When a fax signal is sent, sets whether the line is disconnected immediately after a busy tone is detected, or the busy tone is not detected and the line remains connected until T0 time-out time.
Fax transmission may fail due to incorrect busy tone detection. When set to 2, this problem may be prevented. However, the line is not disconnected within the T0 time-out time even if the destination line is busy.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ON	Detects busy tone.
2: OFF	Does not detect busy tone.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U614	**Adjusting the DTMF output level** **Description** Adjusts the DTMF output level of a push-button dial telephone. **Purpose** No change is necessary from the factory default. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. **Setting** 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Display	Description
SGL LVL DTMF (H)	Adjusts the DTMF (high-frequency group) output level.
SGL LVL DTMF (L)	Adjusts the DTMF (low-frequency group) output level.

Setting	DTMF (high-/low-frequency group) output level
12	2.0 dBm
11	1.5 dBm
10	1.0 dBm
9	0.5 dBm
8	0 dBm
7	–0.5 dBm
6	–1.0 dBm
5	–1.5 dBm
4	–2.0 dBm

Maintenance Item No.	Description
U612	**Setting the modem detection level** **Description** Sets the modem detection level. **Purpose** Used to improve the transmission performance when a low quality line is used. **Method** Press the start key. The current setting is displayed. **Setting** 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. **Completion** Press the stop/clear key. The screen for selecting a maintenance item No. is displayed.
U613	**Setting the DTMF output level** **Description** Sets the DTMF output level of a push-button dial telephone. **Purpose** Used if problems occur when sending a signal with a push-button dial telephone. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. **Setting** 1. Change the setting using the numeric keys. E.g.: When set to 8, the DTMF output level is –8 dBm. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Display	Description
1: 33	–33 dBm
2: 38	–38 dBm
3: 43	–43 dBm
4: 47	–47 dBm

Display	Description
DTMF TX LEVEL (H)	Sets the DTMF (high-frequency group) output level.
DTMF TX LEVEL (L)	Sets the DTMF (low-frequency group) output level.

Description	Setting range
DTMF (high-/low-frequency group) output level	0 to 255

Maintenance item No.	Description
U611	**G3 cable equalizer** **Description** Sets the G3 cable equalizer. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. **Display** / **Description** REG. G3 TX EQR — Sets the G3 transmission cable equalizer. REG. G3 RX EQR — Sets the G3 reception cable equalizer. **Setting the G3 transmission cable equalizer** Perform the following adjustment to make the equalizer compatible with the line characteristics. 1. Change the setting using the numeric keys. **Display** / **Description** 1: 0 — 0 km 2: 18 — 1.8 km 3: 36 — 3.6 km 4: 72 — 7.2 km 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the G3 reception cable equalizer** Perform the following adjustment to make the equalizer compatible with the line characteristics. 1. Change the setting using the numeric keys. **Display** / **Description** 1: 0 — 0 km 2: 18 — 1.8 km 3: 36 — 3.6 km 4: 72 — 7.2 km 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U610	**Setting the modem output level** **Description** Sets the modem output level. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. **Setting the modem output level** To be set when installing the machine in order to adapt to the line characteristics. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Adjusting the modem output level** No change is necessary from the factory default. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Display	Description
SGL LEVEL MODEM	Sets the modem output level.
SGL OUTPUT ADJ	Adjusts the modem output level.

Description	Setting range
Modem output level	4 to 12

Setting	Output level
12	1.0 dBm
11	0.75 dBm
10	0.5 dBm
9	0.25 dBm
8	0 dBm
7	–0.25 dBm
6	–0.5 dBm
5	–0.75 dBm
4	–1.0 dBm

Maintenance Item No.	Description
U609 (cont.)	**Setting the Tc time-out time** In the TAD mode, set the time to check if there are any triggers for shifting to fax reception after a connected telephone receives a call. Only the telephone function is available if shifting is not made within the set Tc time. In the TAD mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. 1. Change the setting using the numeric keys. Description: Tc time-out time; Setting range: 1 to 255 s; Initial setting: 60 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the Td time-out time** Sets the length of the time required to determine silent status (fax), one of the triggers for Tc time check. In the TAD mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call. Be sure not to set it too short; otherwise, the mode may be shifted to fax while the unit is being used as a telephone. 1. Change the setting using the numeric keys. Description: Td time-out time; Setting range: 1 to 255 s 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance Item No.	Description
U609 (cont.)	**Setting the T2 time-out time** The T2 time-out time decides the following. • From CFR signal output to image data reception • From image data reception to the next signal reception • In ECM, from RNR signal detection to the next signal reception 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.

Description	Setting range	Initial setting	Change in value per step
T2 time-out time	1 to 255	69	100 ms

Setting the Ta time-out time

In the fax/telephone auto select mode, sets the time to continue ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-1). A fax signal is received within the Ta set time, or the fax mode is selected automatically when the time elapses. In fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call.

1. Change the setting using the numeric keys.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Description	Setting range	Initial setting
Ta time-out time	1 to 255 s	30

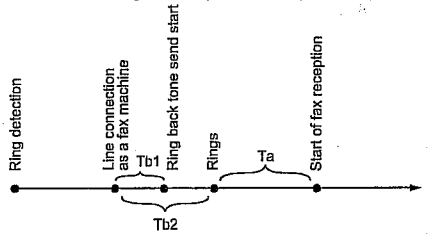


Figure 1-3-1 Ta/Tb1/Tb2 time-out time

Setting the Tb1 time-out time

In the fax/telephone auto select mode, sets the time to start sending the ring back tone after receiving a call as a fax machine (see figure 1-3-1). In fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call.

1. Change the setting using the numeric keys.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Description	Setting range	Initial setting	Change in value per step
Tb1 time-out time	1 to 255	20	100 ms

Setting the Tb2 time-out time

In the fax/telephone auto select mode, sets the time to start ringing an operator through the connected telephone after receiving a call as a fax machine (see figure 1-3-1). In the fax/telephone auto select mode, change the setting when fax reception is unsuccessful or a telephone fails to receive a call.

1. Change the setting using the numeric keys.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Description	Setting range	Initial setting	Change in value per step
Tb2 time-out time	1 to 255	80	100 ms

<table>
<tr><th>Maintenance Item No.</th><th>Description</th></tr>
<tr><td>U608 (cont.)</td><td>
Setting the frequency of the CED signal
Sets the frequency of the CED signal. Used as one of the measures to improve transmission performance for international communications.
1. Enter 1 or 2 using the numeric keys to change the frequency.
<table>
<tr><th>Display</th><th>Frequency of the CED signal</th></tr>
<tr><td>1: 2100
2: 1100</td><td>2100 Hz
1100 Hz</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U609</td><td>
Setting communication time
Description
Sets the time-out time for fax transmission.
Purpose
Used mainly to improve transmission performance for international communications.
Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select an item using the cursor up/down keys.
3. Press the start key. The screen for the selected item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>T0</td><td>Sets the T0 time-out time.</td></tr>
<tr><td>T1</td><td>Sets the T1 time-out time.</td></tr>
<tr><td>T2</td><td>Sets the T2 time-out time.</td></tr>
<tr><td>Ta</td><td>Sets the Ta time-out time.</td></tr>
<tr><td>Tb1</td><td>Sets the Tb1 time-out time.</td></tr>
<tr><td>Tb2</td><td>Sets the Tb2 time-out time.</td></tr>
<tr><td>Tc</td><td>Sets the Tc time-out time.</td></tr>
<tr><td>Td</td><td>Sets the Td time-out time.</td></tr>
</table>
Setting the T0 time-out time
Sets the time before detecting a DIS signal after a dialing signal is sent. Depending on the quality of the exchange, or when the auto select function is selected at the destination unit, a line can be disconnected. Change the setting to prevent this problem.
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th></tr>
<tr><td>T0 time-out time</td><td>30 to 90 s</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Setting the T1 time-out time
Sets the time before receiving the correct signal after call reception. No change is necessary for this maintenance item.
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th></tr>
<tr><td>T1 time-out time</td><td>30 to 90 s</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
</td></tr>
</table>

Maintenance Item No.	Description
U608 (cont.)	**Setting the waiting period to prevent echo problems at the sender** Sets the period before a DCS signal is sent after a DIS signal is received. Used when problems occur due to echoes at the sender. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the waiting period to prevent echo problems at the receiver** Sets the period before an NSF, CSI or DIS signal is sent after a CED signal is received. Used when problems occur due to echoes at the receiver. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting ECM transmission** To be set to OFF when reduction of transmission costs is of higher priority than image quality. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting ECM reception** To be set to OFF when reduction of transmission costs is of higher priority than image quality. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the criteria for receiving a TCF signal 1** Sets the maximum number of error bytes judged acceptable when receiving a TCF signal. Used as a measure to ease transmission conditions if transmission errors occur. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.

Display	Description
1: 500	Sends a DCS 500 ms after receiving a DIS.
2: 300	Sends a DCS 300 ms after receiving a DIS.

Display	Description
1: 500	Sends an NSF, CSI or DIS 500 ms after receiving a CED.
2: 75	Sends an NSF, CSI or DIS 75 ms after receiving a CED.

Display	Description
1: ON	ECM transmission is enabled.
2: OFF	ECM transmission is disabled.

Display	Description
1: ON	ECM reception is enabled.
2: OFF	ECM reception is disabled.

Description	Setting range
Number of errors as a criterion for a TCF signal	0 to 255

Maintenance item No.	Description
U608	**Setting transmission** **Description** Makes settings regarding fax transmission. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
ERROR	Sets the method to process errors.
DIS-2 RES	Sets the number of times of DIS signal reception.
RTN CHECK	Sets the reference for RTN signal output.
TX ECHO	Sets the waiting period to prevent echo problems at the sender.
RX ECHO	Sets the waiting period to prevent echo problems at the receiver.
ECM TX	Sets ECM transmission.
ECM RX	Sets ECM reception.
TCF CHECK	Sets the criteria for receiving a TCF signal 1.
CED FREQ.	Sets the frequency of the CED signal.

Setting the method to process errors

Selects if transmission is to be treated as an error if an RTN or PIN signal is received. If it is treated as an error, an alarm sounds and a transmission report is output.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: OK	Transmission is not treated as an error.
2: ERROR	Transmission is treated as an error.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of times of DIS signal reception

Sets the number of times to receive the DIS signal to once or twice. Used as one of the correction measures for transmission errors and other problems.

1. Enter 1 or 2 using the numeric keys to change the setting.

Display	Description
1: ONCE	Responds to the first signal.
2: TWICE	Responds to the second signal.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the reference for RTN signal output

Sets the error line rate as the reference for RTN signal output. If transmission errors occur frequently due to the quality of the line, they can be reduced by lowering this setting.

1. Change the setting using the numeric keys.

Display	Description
1: 5	Error line rate of 5%
2: 10	Error line rate of 10%
3: 15	Error line rate of 15%
4: 20	Error line rate of 20%

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U607 (cont.)	**Setting the mode for remote switching** Sets the signal detection method for remote switching. Be sure to change the setting according to the type of telephone connected to the machine. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the transmission intervals** Sets the minimum time required for connection to the line for the next transmission after the previous transmission was completed. Change the setting if transmission problems occur during multi-transmission, such as broadcasting and polling transmission, or reserved transmission. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the loop current detection before dialing** Sets if the loop current detection is performed before dialing. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the DIS signal to 4 bytes** Sets if bit 33 and later bits of the DIS/DTC signal are sent. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Display	Description
1: ONE	One-shot detection
2: CONT	Continuous detection

Display	Description
1: 10	10 s
2: 30	30 s
3: 70	70 s
4: 120	120 s

Display	Description
1: ON	Performs loop current detection before dialing.
2: OFF	Does not perform loop current detection before dialing.

Display	Description
1: ON	Bit 33 and later bits of the DIS/DTC signal are not sent.
2: OFF	Bit 33 and later bits of the DIS/DTC signal are sent.

Maintenance item No.	Description
U607	**Setting the system (communication 1)** **Description** Makes settings for fax transmission regarding the communication. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
INTERVAL	Sets the auto redialing interval.
TIMES	Sets the number of times of auto redialing.
TX SPEED	Sets the communication starting speed.
RX SPEED	Sets the reception speed.
REMOTE	Sets the mode for remote switching.
CALL INT	Sets the transmission intervals.
DC LOOP DETECT	Sets the loop current detection before dialing.
DIS 4BYTES FIXED	Sets the DIS signal to 4 bytes.

Setting the auto redialing interval

Change the setting to prevent the following problems: fax transmission is not possible due to too short redial interval, or fax transmission takes too much time to complete due to too long redial interval.

1. Change the setting using the numeric keys.

Description	Setting range
Redialing interval	1 to 9 min.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of times of auto redialing

1. Change the setting using the numeric keys.

Description	Setting range
Number of redialing	0 to 9

When set to 0, no redialing is performed.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the communication starting speed

Sets the initial communication speed when starting transmission. When the destination unit has V.34 capability, V.34 is selected for transmission, regardless of this setting.

1. Change the setting using the numeric keys.

Display	Description
1: 144	V.17, 14400 bps
2: 96	V.17, 9600 bps
3: 48	V.27ter, 4800 bps
4: 24	V.27ter, 2400 bps

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the reception speed

Sets the reception speed that the sender is informed of using the DIS or NSF signal. When the destination unit has V.34 capability, V.34 is selected, regardless of the setting.

1. Change the setting using the numeric keys.

Display	Description
1: 144	V.17, V.33, V.29, V.27ter
2: 96	V.29, V.27ter
3: 48	V.27ter
4: 24	V.27ter (fallback only)

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U606 (cont.)	**Setting if the image scanning quality in fax mode is initialized** Sets if the resolution is to be initialized when fax operation is complete. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting if the scanning density in fax mode is initialized** Sets if the scanning density is initialized when fax operation is complete. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting whether to skip unregistered abbreviated numbers and one-touch key numbers on the list** Sets whether to skip unregistered abbreviated numbers and one-touch key numbers on the list. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Display	Description
1: ON 2: OFF	Resolution is initialized. Resolution is not initialized.

Display	Description
1: ON 2: OFF	Density is initialized. Density is not initialized.

Display	Description
1: ON 2: OFF	Unregistered numbers are skipped. Unregistered numbers are not skipped.

<table>
<tr><th>Maintenance Item No.</th><th>Description</th></tr>
<tr><td>U605 (cont.)</td><td>
Setting the continuous detection time for remote switching
Sets the detection time when continuous detection is selected for remote switching. (This setting item will be displayed, but the setting made is ineffective.)
1. Change the setting using the numeric keys.
<table>
<tr><th>Description</th><th>Setting range</th></tr>
<tr><td>Continuous detection time for remote switching</td><td>0 to 255 ms</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Setting the initial condition of fax image scanning quality
Set to the resolution that is most frequently used by the user.
1. Change the setting using the numeric keys.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>1: S</td><td>Standard</td></tr>
<tr><td>2: F</td><td>Fine</td></tr>
<tr><td>3: SF</td><td>Super fine</td></tr>
<tr><td>4: UF</td><td>Ultra fine</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Completion
Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
</td></tr>
<tr><td>U606</td><td>
Setting the system (operation unit and display)
Description
Makes settings for fax transmission regarding the operation unit and display.
Start
1. Press the start key. The screen for selecting an item is displayed.
2. Select an item using the cursor up/down keys.
3. Press the start key. The screen for the selected item is displayed.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>ALARM LED OFF</td><td>Sets the conditions under which an error indicator turns off.</td></tr>
<tr><td>DATE PATTERN</td><td>Sets the date format.</td></tr>
<tr><td>RESO. LOCK</td><td>Sets if the image scanning quality in fax mode is initialized.</td></tr>
<tr><td>DENS. LOCK</td><td>Sets if the scanning density in fax mode is initialized.</td></tr>
<tr><td>REPORT SKIP</td><td>Sets whether to skip unregistered abbreviated numbers and one-touch key numbers on the list.</td></tr>
</table>
Setting the conditions under which an error indicator turns off
1. Enter 1 or 2 using the numeric keys to change the setting.
<table>
<tr><th>Display</th><th>Description</th></tr>
<tr><td>1: RESET</td><td>An error indicator turns off only when the reset key is pressed.</td></tr>
<tr><td>2: COMM</td><td>An error indicator turns off when any key is pressed, an original is inserted or the next transmission is started.</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
Setting the date format
Selects the date format on the respective reports and sender's information record.
1. Change the setting using the numeric keys.
<table>
<tr><th>Display</th><th>Order</th></tr>
<tr><td>1: YMD</td><td>Year/month/day</td></tr>
<tr><td>2: MDY</td><td>Month/day/year</td></tr>
<tr><td>3: DMY</td><td>Day/month/year</td></tr>
</table>
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.
</td></tr>
</table>

Maintenance Item No.	Description
U605 (cont.)	**Setting an alarm for when reception is completed** 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Selecting if auto reduction in the auxiliary direction is to be performed** Sets whether to receive a long document by automatically reducing it in the auxiliary direction or at 100% magnification. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the addition of an image to the report** Selects if an image is to be added to the transmission report. 1. Enter 1 or 2 using the numeric keys to change the setting. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the error report display format** Selects the format of the transmission report when a transmission error occurs. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the line-monitoring period** Sets the period to monitor the line. By monitoring a transmission from the start to the end, it can be checked whether the transmission was correct or not. 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key. **Setting the one-shot detection time for remote switching** Sets the detection time when one-shot detection is selected for remote switching. (This setting item will be displayed, but the setting made is ineffective.) 1. Change the setting using the numeric keys. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.

Display	Description
1: ON 2: OFF	An alarm rings. An alarm does not ring.

Display	Description
1: ON 2: OFF	Auto reduction is performed if the received document is longer than the fax paper. Auto reduction is not performed.

Display	Description
1: ON 2: OFF	Image added. Image not added.

Display	Description
1: WORDS 2: CODE 3: MIX	Records an error message (BUSY, OK, ERROR or STOP). Records a six-digit error code. Records either an error message or code.

Display	Description
1: END 2: DIS	Until transmission is completed. After dialing is completed until reception of a DIS signal.

Description	Setting range
One-shot detection time for remote switching	0 to 255 ms

Maintenance item No.	Description
U604	**Clearing data** **Description** Initializes data related to the fax transmission such as transmission history and IDs. **Purpose** Used to clear the transmission history or if an ID has been forgotten. **Method** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. **Display** / **Description** COMM. REC — Clears the activity report, error list, action list, transmission history of each department as listed on the department control report, transmission history for displaying the transmission results, document number, timer program information, protocol list, and other transmission history such as image data, excluding items regarding the machine variation adjustment. MANAGE PW — Initializes the cipher key password. F-CONFI BOX ID — Initializes the F-code confidential box ID. F-RELAY BOX ID — Initializes the F-code relay box ID. ENCRIPT BOX ID — Initializes the encription box ID. 3. Press the start key. Initialization starts. When initialized, "COMPLETED" is displayed. 4. To return to the screen for selecting an item, press the stop/clear key. **Completion** Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.
U605	**Setting the system (operational)** **Description** Makes settings for fax transmission regarding operation. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed. **Display** / **Description** MEM. FULL — Sets how to proceed if memory becomes full during memory transmission. FIN. ALARM — Sets an alarm for when reception is completed. AUTO REDU — Selects if auto reduction in the auxiliary direction is to be performed. ADD IMAGE — Sets for the addition of an image to the report. ERR. CODE — Sets the error report display format. MONITOR — Sets the line-monitoring period. TIME (ONE) — Sets the one-shot detection time for remote switching. TIME (CON) — Sets the continuous detection time for remote switching. RESOLUT — Sets the initial condition of fax image scanning quality. **Setting how to proceed if memory becomes full during memory transmission** Used to select whether to send only stored data or to display an error indication and cancel transmission if memory becomes full during memory transmission. 1. Enter 1 or 2 using the numeric keys to change the setting. **Display** / **Description** 1: CONT — Whether to continue memory transmission or to clear the memory can be selected by the user. 2: STOP — Memory is forcibly cleared. 2. Press the start key. The value is set. 3. To return to the screen for selecting an item, press the stop/clear key.

Maintenance Item No.	Description
U603	**Setting the user registration data** **Description** Makes user settings to enable the use of the copier as a fax. **Purpose** To be run after installation of the facsimile kit if necessary. **Start** 1. Press the start key. The screen for selecting an item is displayed. 2. Select an item using the cursor up/down keys. 3. Press the start key. The screen for the selected item is displayed.

Display	Description
SELF TEL No.	Sets the self telephone number.
LINE TYPE	Sets the type of telephone line.
RINGS (F/T) #	Sets the number of rings in fax/telephone auto select mode.
REMOTE DIAG	Sets remote diagnostic transmission.

Setting the self telephone number

1. Enter the telephone number using the numeric keys.
   Up to 20 digits can be entered.
   To correct the entered telephone number or to delete the stored telephone number, reset by pressing the stop/clear key.
2. Press the start key.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the type of telephone line

1. Change the setting using the numeric keys.

Display	Description
1: DTMF	DTMF
2: 10	10 PPS
3: 20	20 PPS

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting the number of rings in the fax/telephone auto select mode

According to the user request, used to increase or decrease the time required to switch to a fax.

1. Change the setting using the numeric keys.

Description	Setting range
Number of fax/telephone rings	0 to 15

   When set to 0, a fax is selected immediately after receiving a ring tone. Never set the number of fax/telephone rings to 0 on European specification models.
2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Setting remote diagnostic transmission

1. Enter 1 or 2 using the numeric keys to select if remote diagnostic transmission is to be enabled.

Display	Description
1: ON	Remote diagnostic transmission is enabled.
2: OFF	Remote diagnostic transmission is disabled.

2. Press the start key. The value is set.
3. To return to the screen for selecting an item, press the stop/clear key.

Completion

Press the stop/clear key at the screen for selecting an item. The screen for selecting a maintenance item No. is displayed.

Maintenance item No.	Description
U602	**Setting factory defaults** **Description** Initializes software switches other than that for machine data and the SRAM on the fax control PCB, according to the destination and OEM. **Purpose** Used to initialize the fax control PCB to the factory default. **Method** 1. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key. 2. After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later. INI. SHIP DATA COMPLETED 000:000 INI. SHIP DATA COMPLETED V1.00

Maintenance Item No.	Description
U600 (cont.)	**Destination code list**

Code	Destination	Code	Destination
000	Japan	253	CTR21 (European nations)
009	Australia		Italy
032	Canada		Germany
070	Greece		Spain
080	Hong Kong		U.K.
084	Indonesia		Netherlands
088	Israel		Sweden
108	Malaysia		France
126	New Zealand		Austria
136	Peru		Switzerland
137	Philippines		Belgium
152	Middle East		Denmark
156	Singapore		Finland
159	South Africa		Portugal
169	Thailand		Ireland
181	U.S.A.		Norway
242	South America	254	Taiwan
243	Saudi Arabia		

U601 — **Initializing permanent data**

Description
Initializes software switches other than that for machine data on the fax control PCB according to the destination and OEM.

Purpose
Used to initialize the fax control PCB without changing user registration data and factory settings.

Method
1. Press the start key. The screen for entering the destination code is displayed.
   Enter a destination code using the numeric keys (refer to the destination code list on page 1-3-5 for the destination code).

   ```
   INI.  KEEP  DATA
   COUNTRY CODE:000
   ```

2. Press the start key. The screen for entering the OEM code is displayed.
   There is no operation necessary on this screen.

   ```
   INI.  KEEP  DATA
   OEM CODE:000
   ```

3. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key.
4. After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later.

   ```
   INI.  KEEP  DATA
   COMPLETED 000 000
   ```

   ```
   INI.  KEEP  DATA
   COMPLETED V1.00
   ```

Caution
If initialized with "000" (code for Japan) entered as the destination code, service call code C082 (fax control PCB problem) will be detected. Be sure to enter the correct destination code. If C082 (fax control PCB problem) is detected, press the COPY/FAX switching key to put the machine in the copy mode, open the front cover and then execute this maintenance item again to enter the correct destination code and initialize data.

(2) Contents of maintenance mode items

Maintenance item No.	Description
U600	**Initializing all data** **Description** Initializes software switches and all data in the SRAM on the fax control PCB, according to the destination and OEM. **Purpose** Used to initialize the fax control PCB. **Method** 1. Press the start key. The screen for entering the destination code is displayed. Enter a destination code using the numeric keys (refer to the destination code list on page 1-3-5 for the destination code). INI. ALL DATA COUNTRY CODE:000 2. Press the start key. The screen for entering the OEM code is displayed. There is no operation necessary on this screen. INI. ALL DATA OEM CODE:000 3. Press the start key. Data initialization starts. To cancel data initialization, press the stop/clear key. 4. After data initialization, the entered destination and OEM codes are displayed, and the ROM version is displayed two seconds later. INI. ALL DATA COMPLETED 000 000 INI. ALL DATA COMPLETED V1.00 **Caution** If initialized with "000" (code for Japan) entered as the destination code, service call code C082 (fax control PCB problem) will be detected. Be sure to enter the correct destination code. If C082 (fax control PCB problem) is detected, press the COPY/FAX switching key to put the machine in the copy mode, open the front cover and then execute this maintenance item again to enter the correct destination code and initialize data.

Section	Item No.	Maintenance item contents	Initial setting
Fax	U894	Performing board test • Performing tests on SRAM and DRAM • Performing tests on optional memory	— —
Others	U914	Switching between fax/copier modes	copier
	U992	Checking or clearing the printer/fax count	—

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Section	Item No.	Maintenance item contents	Initial setting
Fax	U610	Setting the modem output level • Setting the modem output level • Adjusting the modem output level	— —
	U611	G3 cable equalizer • Setting the G3 transmission cable equalizer • Setting the G3 reception cable equalizer	— —
	U612	Setting the modem detection level	—
	U613	Setting the DTMF output level • Setting the DTMF (high-frequency group) output level • Setting the DTMF (low-frequency group) output level	— —
	U614	Adjusting the DTMF output level • Adjusting the DTMF (high-frequency group) output level • Adjusting the DTMF (low-frequency group) output level	— —
	U615	Setting the NCU • Setting the connection to PBX/PSTN • Setting PSTN dial tone detection • Setting busy tone detection • Setting for a PBX	— — — —
	U616	Adjusting the ratio of make-to-break of dial pulses • Make time (10 PPS) • Make time (20 PPS)	— —
	U617	Outputting lists • Settings list • Action list • Monitor list • Own-status report • Protocol list • Abbreviated dialing ECM setting list • One-touch dialing ECM setting list	— — — — — — —
	U650	Setting the system 1 • Setting the number of lines to be ignored when receiving a fax at 100% magnification • Setting the number of lines to be ignored when receiving a fax in the auto reduction mode • Setting the number of lines to be ignored when receiving a fax (A4R/letter) in the auto reduction mode • Setting the recording width for inch specifications • Setting automatic printing of the protocol list	3 3 3 — —
	U651	Setting the system 2 • Setting the variation range in the auxiliary scanning direction for rotation reception • Setting the number of adjustment lines for automatic reduction • Setting the number of adjustment lines for automatic reduction when A4 paper is set • Setting the number of adjustment lines for automatic reduction when letter size paper is set	3 7 22 26
	U660	Setting the system (communication 2) • Setting the criteria for receiving a TCF signal 2 • Setting the short protocol transmission • Setting the reception of a short protocol transmission • Setting the CNG detection times in the fax/ telephone auto select mode • Turning ECM for abbreviated dialing on/off • Turning ECM for one-touch dialing on/off	— — — — — —
	U670	Setting the system (communication 3) • Setting if V.34 transmission is available • Setting the V.34 symbol speed (3429 Hz) • Setting the V.34 symbol speed (3200 Hz) • Setting the V.34 symbol speed (3000 Hz) • Setting the V.34 symbol speed (2800 Hz)	— — — — —
	U680	Displaying the fax board ROM version	—

fax sys A (3/10)

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1-3-1 Maintenance mode

(1) Maintenance mode item list

Section	Item No.	Maintenance item contents	Initial setting*
Fax	U600	Initializing all data	—
	U601	Initializing permanent data	—
	U602	Setting factory defaults	—
	U603	Setting the user registration data • Setting the self telephone number • Setting the type of telephone line • Setting the number of rings in the fax/telephone auto select mode • Setting remote diagnostic transmission	— — — —
	U604	Clearing data • Clearing transmission history • Initializing the cipher key password • Initializing the F-code confidential box ID • Initializes the F-code relay box ID • Initializes the encription box ID	— — — — —
	U605	Setting the system (operational) • Setting how to proceed if memory becomes full during memory transmission • Setting an alarm for when reception is completed • Selecting if auto reduction in the auxiliary direction is to be performed • Setting the addition of an image to the report • Setting the error report display format • Setting the line-monitoring period • Setting the one-shot detection time for remote switching • Setting the continuous detection time for remote switching • Setting the initial condition of fax image scanning quality	— — — — — — — — —
	U606	Setting the system (operation unit and display) • Setting the conditions under which an error indicator turns off • Setting the date format • Setting if the image scanning quality in fax mode is initialized • Setting if the scanning density in fax mode is initialized • Setting whether to skip unregistered abbreviated numbers and one-touch key numbers on the list	— — — — —
	U607	Setting the system (communication 1) • Setting the auto redialing interval • Setting the number of times of auto redialing • Setting the communication starting speed • Setting the reception speed • Setting the mode for remote switching • Setting the transmission intervals • Sets the loop current detection before dialing • Sets the DIS signal to 4 bytes	— — — — — — — —
	U608	Setting transmission • Setting the method to process errors • Setting the number of times of DIS signal reception • Setting the reference for RTN signal output • Setting the waiting period to prevent echo problem at the sender • Setting the waiting period to prevent echo problem at the receiver • Setting ECM transmission • Setting ECM reception • Setting the criteria for receiving a TCF signal 1 • Setting the frequency of the CED signal	— — — — — — — — —
	U609	Setting communication time • Setting the T0 time-out time • Setting the T1 time-out time • Setting the T2 time-out time • Setting the Ta time-out time • Setting the Tb1 time-out time • Setting the Tb2 time-out time • Setting the Tc time-out time • Setting the Td time-out time	— — 69 30 20 80 60 —

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