



KRDS



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SPECIFICATIONS

[1] Interface between the Copier and KRDS Unit

Serial communication half-duplex method,
Baud rate max. 57,600 bps

[2] Interface between KRDS Unit and the Modem

Based on RS-232C,
Baud rate max. 57,600 bps

[3] Basic Function

Operating count automatic check,
Remote control (updating machine adjustments
and count limit, etc.),
JAM frequent occurrence report,
Toner supply report Repair request button

KRDS SETUP

[1] Outline of KRDS

KRDS enables to call the host computer from the copier regularly or when any error occurs; query the various data on the copier; and change the data from the host computer.

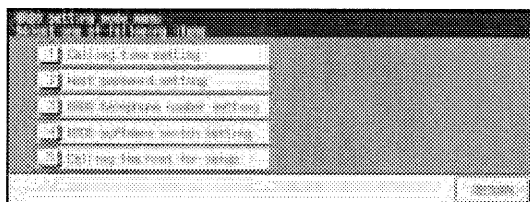
KRDS can execute the above functions for the following data:

- Data on the copier's status such as total and PM count.**
- Data on the frequency of the partial copier such as RADF paper passage count.**
- Data on the copier's error status such as JAM/SC (F) occurrence point and count.**
- Data on the various adjustments**

To use KRDS, set up as follows:

- Set the KRDS connection recognition.
- Set type of modem and line.
- Enter host password.
- Set phone number.

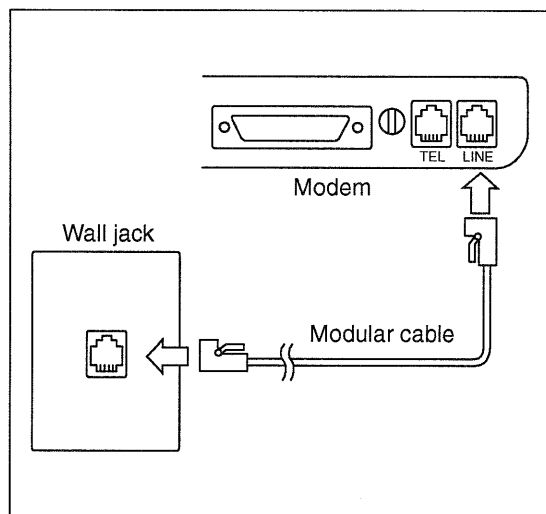
[KRDS setting mode menu Screen]



[2] KRDS Setup Procedure

Step	Operation
1	Turn off the modem, connect the copier to the modem using a modem cable, and connect the modem to a wall jack using a modular cable. (see *4.)
2	Set the copier software DIP switch 15-5 (KRDS connection recognition) to "1". (25 mode → 1 Software DIP SW setting)
3	Turn off the main switch of the copier.
4	Set the KRDS software switch. (25 mode → 10 KRDS setting → 4 KRDS software switch setting) (Select type of modem and dial mode: Select type of modem with the bit number 0 to 6 of KRDS software SW No. 1; select dial mode with the bit number 7.)
5	Set the host password. (25 mode → 10 KRDS setting → 2 Host password setting)(See *1 and *2.)
6	Set the KRDS phone number. (25 mode → 10 KRDS setting → 3 KRDS telephone number setting) (See *3.)
7	Turn off the main switch of the copier.
8	Plug the outlet in and out.
9	Turn on the modem.
10	Turn on the main switch of the copier.
11	Perform KRDS set up calling (25 mode → 10 KRDS setting → 5 Calling the host for KRDS setup)
12	Press the Start Key to start set up.
13	Check the finishing of set up. (25 mode → 10 KRDS setting → 4 KRDS software switch setting) Completes if the data on the switch No. 33 and the bit No. 0 indicates "1" (finished.)
14	Turn off the main switch of the copier.

- *1 Host password must be 5-digits.
- *2 Host password 1 must be specified.
- *3 For both the copier and the host side, telephone number 1 must be specified.
- *4 Refer to the manual of the modem about specifications for connecting with the modular cable.



1. Setting the KRDS connection recognition

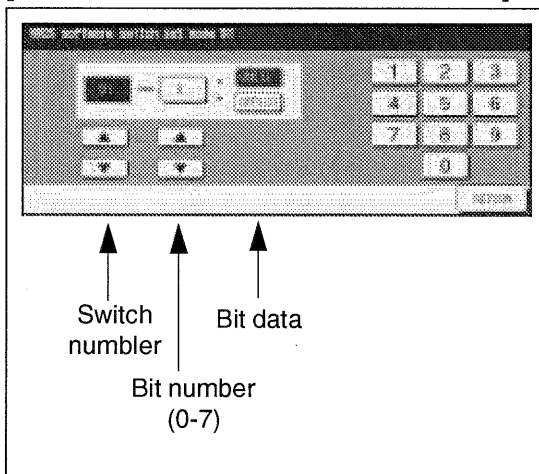
- (1) Insert the power supply of the copier into the plug socket with the power switch off.
- (2) Turn on the power switch while holding both the copy quantity setting button 2 and 5 simultaneously.
- (3) Select " **1** Software DIP switch setting" in the 25 Mode Menu Screen.
- (4) Select the bit No. 5 of the switch No. 15, and then press the **ON** key.
 - ON** : KRDS connect
 - OFF** : KRDS not connected
- (5) Turn off the power switch of the copier.

[3] Setting KRDS software switch

This function sets KRDS software switch.

Caution: Set the software switch while checking the switch and bit number since the memory is rewritten every time the bit data (1 or 0) is changed. Any bit data that has been incorrectly changed must be returned to the original data.

[KRDS software switch set mode Screen]



a. Procedure

Step	Operation
1	Enter the 25 mode.
2	[Memory setting mode menu Screen] Press [10] KRDS setting.
3	[KRDS setting mode menu Screen] Press [4] KRDS software switch setting.
4	[KRDS software switch set mode Screen] Use [▲] , [▼] , or ten keys to set the switch number. (See *1.)
5	Use [▲] , [▼] , or ten keys to set the bit number.
6	Press [ON] or [OFF] key to set the bit data.
7	Press [RETURN] key to end setting. (See *2.)

*1 For the function of each switch, refer to "List of KRDS Software DIP Switches".

*2 The bit data will be written in the non-volatile RAM every time it is changed.

b. Setting type of modem and line

- Using the switch No. 01, enter the modem and line data into the bits 0 to 7, referring to the following table.

<Type of line: Pulse>

Bit No.	7	6	5	4	3	2	1	0	Hex a-deci-mal
Type of Modem Command									
AT&FE0Q0V1X0S0=1&S0	0	0	0	0	0	0	0	1	01
AT&FE0Q0V1X0S0=1&S0&D2&C1	0	0	0	0	0	0	1	0	02
AT&FE0Q0V1X0S0=1&S0%E0	0	0	0	0	0	0	1	1	03
AT&FE0Q0V1X0S0=1&S0&D2	0	0	0	0	0	1	0	0	04
AT&FE0Q0V1X0S0=1&S0&M5	0	0	0	0	0	1	0	1	05
AT&FE0Q0V1X0S0=1	0	0	0	0	0	1	1	0	06
AT&FE0Q0V1X0S0=1&S0¥N5	0	0	0	0	0	1	1	1	07

<Type of line: Tone>

Bit No.	7	6	5	4	3	2	1	0	Hex a-deci-mal
Type of Modem Command									
AT&FE0Q0V1X0S0=1&S0	1	0	0	0	0	0	0	1	81
AT&FE0Q0V1X0S0=1&S0&D2&C1	1	0	0	0	0	0	1	0	82
AT&FE0Q0V1X0S0=1&S0%E0	1	0	0	0	0	0	1	1	83
AT&FE0Q0V1X0S0=1&S0&D2	1	0	0	0	0	1	0	0	84
AT&FE0Q0V1X0S0=1&S0&M5	1	0	0	0	0	1	0	1	85
AT&FE0Q0V1X0S0=1	1	0	0	0	0	1	1	0	86
AT&FE0Q0V1X0S0=1&S0¥N5	1	0	0	0	0	1	1	1	87

Example: Enter 00000001 for all of the bit No.7-0 if the type of the modem command is AT&FE0Q0V1X0S0=1&S0 and the type of line is Pulse. The hexadecimal value is indicated as 01. Check if the hexadecimal value corresponds with the specified modem according to the above table.

Note: If the KRDS DIP switch 38-0 is set to 1 (ON), the KRDS DIP switch 1-7 for pulse/tone selection is not effective. Check that the KRDS DIP switch 38-0 is set to 0 (OFF) before selecting the KRDS DIP switch 1-7.

<List of KRDS Software DIP SW>

 Initial set value

No.		Function	Bit Pattern								Description	Initial Value (Hexadecimal)		
byte	bit		MSB	7	6	5	4	3	2	1			LSB	
1	0-6	Select modem		0	0	0	0	0	0	0	0	No setting (No data is sent to modem.)	81	
				0	0	0	0	0	0	1	AT&FE0Q0V1X0S0=1&S0			
				0	0	0	0	0	1	0	AT&FE0Q0V1X0S0=1&S0&D2&C1			
				0	0	0	0	0	1	1	AT&FE0Q0V1X0S0=1&S0%E0			
				0	0	0	0	1	0	0	AT&FE0Q0V1X0S0=1&S0&D2			
				0	0	0	0	1	0	1	AT&FE0Q0V1X0S0=1&S0&M5			
				0	0	0	0	1	1	0	AT&FE0Q0V1X0S0=1			
				0	0	0	0	1	1	1	AT&FE0Q0V1X0S0=1&S0\N5			
				1	1	1	1	1	1	1	Manual setting (3 to 24 byte data is sent to modem.)			
	7	Type of line	0								Pulse dial			
			1								Tone dial			
2	0	Data character length									0	7 bits	81	
												1		8 bits
	1-2	Parity and stop bit							0	0	No parity; stop bit 1			
									0	1	Even number of parity; stop bit 1			
									1	0	Odd number of parity; stop bit 1			
									1	1	No parity; stop bit 2			
	3	Reserved												
	4-6	Baud rate, phone line interface	0	0	0	1								300 bps
			0	0	1	1								1200 bps
			0	1	0	0								2400 bps
			0	1	0	1								4800 bps
			0	1	1	1								9600 bps
			0	1	1	1								19200 bps
			1	0	0	0								38400 bps
			1	0	0	1								57600 bps
	7	Reserved												
3	0	Local echo									0	No setting	57	
												1		E0 : When modem can receive commands, it does not echo back data sent from PC's (Copiers)
	1	Result code									0	No setting		
												1		Q0: Exist (Returns result code.)
	2	Result code form							0		No setting			
										1		V1: Word (Returns result code in English)		
	3	Set DCD signal operation						0			No setting			
									1			&C1: ON only when detecting the carrier		
	4-5	Set DSR signal operation			0	0					No setting			
					0	1						&S0: Always ON (Modem can send and receive.)		
					1	0						&S1: ON during online		
					1	1						&S2 : Equal to DCD signal timing (when & C1 is selected)		

No.		Function	Bit Pattern								Description	Initial Value (Hexadecimal)			
byte	bit		MSB	7	6	5	4	3	2	1			LSB		
3	6	Check DSR signal	0									off	57		
			1											on	
	7	Check DCD signal	0									off			
			1											on	
4	0-1	Set DTR signal operation								0	0	No setting		10	
										0	1	&D0 : Disregards DTR signal.	DTR signal ON: Can keep status ready to transmit and receive. OFF: Impossible to keep status ready to transmit and receive.		
									1	0	&D1 : Turning ON to OFF of DTR signal results in command mode.				
									1	1	&D2 : Turning ON to OFF of DTR signal causes no automatic receive, the line to be cut, and command mode effective.				
	2-3	Speaker control						0	0	No setting					
								0	1	M0: Always ON					
								1	0	M1: ON until communication starts					
								1	1	M2: Always ON					
	4-6	Display speed when completed connection and detect dial/busy tone	0	0	0	0						No setting			
			0	0	1							X0: No indication of communication speed			
			0	1	0							X1: Indication of communication speed; Detect no dialtone nor busy tone			
			0	1	1							X2: Indication of communication speed; Detect dial tone			
			1	0	0							X3: Indication of communication speed; Detect busy tone			
			1	0	1							X4: Indication of communication speed; Detect dial and busy tone			
			1	1	0							no setting			
			1	1	1							no setting			
	7	Reset modem (This is set prior to shipping.)	0									AT:No setting			
			1									AT&F: This is set prior to shipping.			
	5	0-7	Arbitrarily command registration area 1												00
	6	0-7	(ASCII data)												
	7	0-7													
	8	0-7	Arbitrarily command registration area 2												
	9	0-7	(ASCII data)												
	10	0-7													
	11	0-7	Arbitrarily command registration area 3												
	12	0-7	(ASCII data)												
	13	0-7													
	14	0-7	Arbitrarily command registration area 4												
15	0-7	(ASCII data)													
16	0-7														

No.	Function		Bit Pattern								LSB	Description	Initial Value (Hexadecimal)
	byte	bit	7	6	5	4	3	2	1	0			
17	0	Set S register(bits 0-7)									0	No setting	01
		S0:Automatic receive ring count									1	S0=: Effective data	
	1	S6: Wait time from off hook to dial start								0	No setting		
										1	S6=: Effective data		
	2	S7: Offhook limit timer							0	No setting			
									1	S7=: Effective data			
	3	S8: Pause time (Dial stop time (sec.))					0			No setting			
							1			S8=: Effective data			
	4	S9: Carrier detect time				0				No setting			
						1				S9=: Effective data			
	5	S10: Carrier recogniz stop time			0					No setting			
					1					S10=:Effective data			
	6	S11: Tone succession and interval time in tone dialing		0						No setting			
				1						S11=:Effective data			
	7	Reserved	Don't care										
18		S0 data	00-FFH (0 to 255)								Automatic receive ring count	01 (1)	
19		S6 data	00-FFH (0 to 255)								Wait time from offhook to dial start	02 (2)	
20		S7 data	00-FFH (0 to 255)								Carrier detect time	ID (29)	
21		S8 data	00-FFH (0 to 255)								Pause time	02 (2)	
22		S9 data	00-FFH (0 to 255)								Carrier detect time	06 (6)	
23		S10 data	00-FFH (0 to 255)								Carrier detect stop time	0E (14)	
24		S11 data	00-FFH (0 to 255)								Tone succession and interval time in tone dialing	5F (95)	
25		Timer 1	00-FFH (0 to 255)								x 1 sec (Ring receive to CONNECT receive)	20 (32)	
26		Timer 2	00-FFH (0 to 255)								x 1 sec (Dial call complete to CONNECT receive)	40 (64)	
27		Timer 3	00-FFH (0 to 255)								x 100 ms (Not used)	0A (10)	
28		Timer 4	00-FFH (0 to 255)								x 100 ms (Line connect to Work start request text send)	20 (32)	
29		Timer 5	00-FFH (0 to 255)								x 1 sec (Other party signal response wait time)	1E (30)	
30		Retry data; Timer 6	00-FFH (0 to 255)								x 5 msec (Initialize OK to Dial call)	FF (255)	
31	0	Call when SC error occurs									0	disable	99
											1	enable	
	1	Call specify date								0	disable		
										1	enable		
	2	Call parts replace date							0	disable			
									1	enable			
	3	Call drum replace date					0			disable			
							1			enable			
	4	Call regular service date				0				disable			
						1				enable			
	5	Reserved			Don't care								
	6	Call regular transmit date		0						disable			
				1						enable			
	7	Select regulartransmit (Time and count)	0							time			
			1							counter			

No.	byte	bit	Function	Bit Pattern								LSB	Description	Initial Value (Hexadecimal)
				7	6	5	4	3	2	1	0			
32	0		Call when optional configuration is changed								0	disable	00	
												1		enable
	1	Call report of toner replenishment							0	disable				
									1	enable				
	2	Call report of JAM occur frequently							0	disable				
									1	enable				
3-7	Reserved	Don't care												
33	0		Set up flag								0	not yet	2A	
												1		finished
	1-2	Radial interval							0	0	1 min.			
									0	1	3 min.			
									1	0	5 min.			
									1	1	7 min.			
	3-4	Radial count				0	0				0			
						0	1				5			
						1	0				10			
						1	1				no limit			
	5	Delay after DTR ON/OFF (When initializing modem)			0						-			
					1						1 sec			
	6	Reserved			Don't care									
	7	Line feed control (when initializing modem)	0								CR/LF: LF exist			
			1								CR: No LF			
34	0-1	Call JAM date (main body) Valid copy quantity								0	0	Copy quantity: level 1	55	
											0	1		Copy quantity: level 2
											1	0		Copy quantity: level 3
											1	1		Copy quantity: level 4
	2-3	Call ADF JAM date Valid original feed quantity						0	0			Original feed quantity: level 1		
									0	1				Original feed quantity: level 2
									1	0				Original feed quantity: level 3
									1	1				Original feed quantity: level 4
	4-5	Call JAM date MCBJ setting	0	0								MCBJ: level 1		
						0	1					MCBJ: level 2		
						1	0					MCBJ: level 3		
						1	1					MCBJ: level 4		
	6-7	Call ADF JAM date MOBJ setting	0	0								MOBJ: level 1		
			0	1								MOBJ: level 2		
			1	0								MOBJ: level 3		
			1	1								MOBJ: level 4		
35			Reserved									00		
36			Reserved											
37			Reserved											

No.	Function		Bit Pattern								LSB	Description	Initial Value (Hexadecimal)
			7	6	5	4	3	2	1	0			
38	0	Line type automatic recognition								0	off	88	
										1	on		
	1-5	Reserved			Don't care								
	6	PM limit data length		0							Upper 2-digit fixed (for host)		
				1							All 6-digit (for host)		
	7	Regular transmit communication Sequence control	0								Call back communication		
			1								No call back communication		
39	0-1	Reserved								Don't care		00	
	2	RS-232 line error PJ2 (Note 1)							0		copy enable		
									1		copy disable		
	3	Modem AT command error FJ3 (Note 1)						0			copy enable		
								1			copy disable		
	4	Communication error between host and KRDS FJ4 (Note 1)					0				copy enable		
							1				copy disable		
	5	Force copy stop (Note 2)			0						disable		
					1						enable		
	6-7	Reserved	Don't care										
40	0	Force copy stop control (Note 2)								0	disable	00	
										1	enable		
	1	Jam history data clear								0	disable		
										1	enable		
	2-7	Reserved	Don't care										

Note1: For details of errors, refer to [5] Error Code Table.

Note2: Force copy stop will be executed only when the both switches (39-5 and 40-0) are set to 1.

[4] Setting host password

This function sets host password.

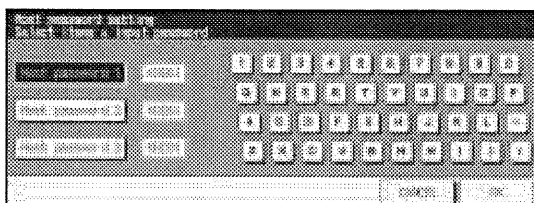
a. Flow and Explanation

(1) Screen selection

Select **[10]** KRDS setting in the Memory setting mode menu Screen to display KRDS setting mode menu Screen as an initial screen.

Then select **[2]** Host password setting to display Host password setting Screen.

[Host password setting Screen]



(2) Setting method

- a. Select the item to enter.
 - b. Enter a 5-character string of digits and alphabet letters from the alphanumeric keypad on the screen.
 - c. The firstly entered number or alphabet will be shifted to the left end.
 - d. This password has been set to 00000 prior to shipping.
- * •Note that the host password 1 must be set.
• Refer to CALLING TIME SETTING (ARBITRARY) for the host password 2.

Host password 3 is preliminary.

(3) End of setting

Press **[OK]** key to return to the KRDS setting mode menu Screen with the above setting stored.

Press **[CANCEL]** key to return to the KRDS Setting Screen with the above setting canceled.

a. Procedure

Step	Operation
1	Enter the 25 mode.
2	[Memory setting mode menu Screen] Press [10] KRDS setting.
3	[KRDS setting mode menu Screen] Press [2] Host password setting.
4	[Host password setting Screen] Select the item to enter. Enter a password consisting of numbers and alphabet letters.
5	Press [OK] key to end setting.

[5] Setting KRDS telephone number

This function sets KRDS telephone number.

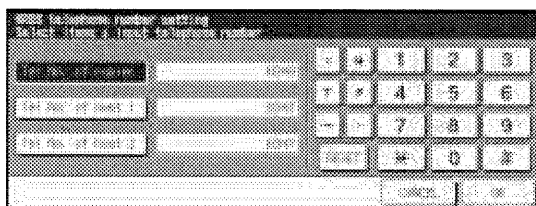
a. Flow and Explanation

(1) Screen selection

Select **[10]** KRDS setting in the Memory setting mode menu Screen to display KRDS setting mode menu Screen as an initial screen.

Then select **[3]** KRDS telephone number setting to display KRDS setting mode menu Screen.

[KRDS telephone number setting Screen]



(2) Setting method

- Select an item to enter.
- Enter 20 or less characters of digits and alphabet letters from the alphanumeric keypad on the screen. If more than 20 characters are entered, the characters will shift from the right to the left to keep up to 20 characters.
- To re-enter the phone number, press **[RESET]** key to clear the data, then enter the correct number.
- No data has been set for the Telephone No. fields of the message area prior to shipping.
- The buttons except the numeric keys are defined as follows:

- [.]** Pause: Wait temporarily for self-dial feed
- [W]** Wait: Wait for dial tone such as asynchronous, etc. (excluding sound guidance)
- [T]** Tone Dial: Indicate tone dial after this symbol
- [P]** Pulse Dial: Indicate pulse dial after this symbol
- [/]** Symbol to divide numbers: (This symbol is ignored when dialing.)
- [.] , [#] , [*]** Use these keys as required.

- * Note that the telephone numbers of the copier and host 1 must be set.
- Refer to [4] Calling Time Setting Menu Mode (Arbitrary) for setting the telephone number of the host2.

(3) End of setting

Press **[OK]** key to return to the KRDS setting mode menu Screen with the above setting stored.

Press **[CANCEL]** key to return to the KRDS setting mode menu Screen with the above setting canceled.

b. Procedure

Step	Operation
1	Enter the 25 mode.
2	[Memory setting mode menu Screen] Press [10] KRDS setting.
3	[KRDS setting mode menu Screen] Press [3] KRDS telephone number setting.
4	[KRDS telephone number setting Screen] Select the item to enter. Enter a 20-digit phone number using the alpha numeric keys on the screen.
5	Press [OK] key to end setting.

[6] Calling KRDS set up**a. Flow and Explanation**

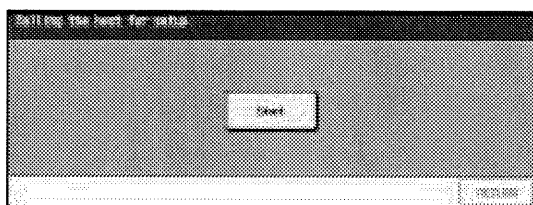
<Auto set up>

Transmit the serial number and telephone number data to the KRDS host computer for automatic registration.

(1) Screen selection

Select **[10]** KRDS setting in the Memory setting mode menu Screen to display KRDS setting mode menu Screen.

Then select **[5]** Call KRDS set up to display Calling the host for setup Screen.

[Calling the host for setup Screen]

Caution: If the KRDS software DIP SW 33-0 (Set up flag) is not selected to "0" (not yet), the Calling the host for setup Screen can not be selected.

(2) Setting method

- a. Press **[Start]** key in Calling the host for setup Screen.

(a) Communication message

Communicating

(b) Completion message

Communication completed

- b. Turn off the power if no completion message is displayed in ten minutes.
Check on the host phone number, cable connection, etc. then move to Calling the host for setup Screen again to press **[Start]** key.

- c. Turn off the power to end the operation.

b. Procedure

Step	Operation
1	Enter the 25 mode.
2	[Memory setting mode menu Screen] Press [10] KRDS setting.
3	[KRDS setting mode menu Screen] Press [4] KRDS software switch setting.
4	[KRDS software switch setting Screen] Use the [▲] or [▼] key to select the switch number of "33" and bit number "0".
5	Check that bit data indicates "0". If not, set to "0" to press the [OFF] key.
6	Press [RETURN] key to return to the KRDS setting mode menu Screen.
7	[KRDS setting mode menu Screen] Press the [5] Call KRDS set up.
8	[Calling the host for setup Screen] Press the [Start] key. Check the message on the screen.
9	Turn off the power to end the operation.

- How to confirm the completion of setup
Confirm the data at bit No. 0 of switch No. 33 in reference to "2. Setting KRDS software switch".

<Manual set up>

This copier machine can be set up manually, other than the automatical setup as explained above. (The setup is effective when both the copier and the host have completed the setup action.)

- Operation for the copier machine
 1. Switch on the power of modem.
 2. Set the switch No. 33 as referring to "2. Setting KRDS software switch".
 3. Change the data of bit No. 0 from 0 to 1.
 - 0: Setup not completed
 - 1: Setup completed
 4. Switch off the power of main body.
- Operation for the host computer

For the operation of the host computer, refer to the KRDS Host Application Administrator's Manual.

CALLING TIME SETTING (ARBITRARY)

[1] Outline of calling Time Setting (Arbitrary)

In the host call setting, call the designated host computer in the set date and time, and transmit each data of the copier.

Refer to the separate KRDS Host Application Manual for details of the data being handled.

Caution: This Host call setting always sets to calling to "Host 2". Therefore, setting of the "Host 2" telephone number and Host password must be needed in advance.

[2] Setting calling time setting mode

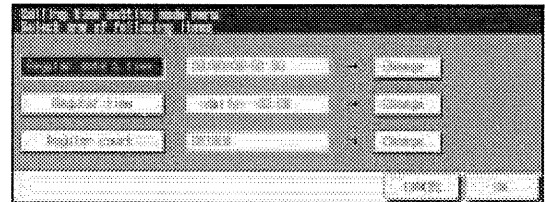
a. Flow and Explanation

(1) Screen selection

Select **[10]** KRDS setting in the Memory setting mode menu Screen to display KRDS setting mode menu Screen as an initial screen.

Then select **[1]** Calling time setting to display Calling time setting mode menu Screen.

[Calling time setting mode menu Screen]



(2) Key functions

- Selecting **[Regular date & time]** key and setting a KRDS software switch performs calling at a regular date and time.
- Selecting **[Regular time]** key and setting a KRDS software switch performs calling at a regular time.
- Selecting **[Regular count]** key and setting a KRDS software switch performs calling at a regular count.
- Either **[Regular time]** or **[Regular count]** key is enabled at a time by setting the KRDS software switch 31-7 to 0 or 1. This switch defaults to 1 (Regular count).
- **[Regular date & time]** key is enabled by setting the KRDS software switch 31-1 to 1 (enable).
- **[Regular time]** or **[Regular count]** keys are enabled by setting the KRDS software switch 31-6 to 1 (enable).
- Selecting **[Change]** key displays the setting Menu screen for the associated function. Refer to (1) thru (3).

(3) End of setting

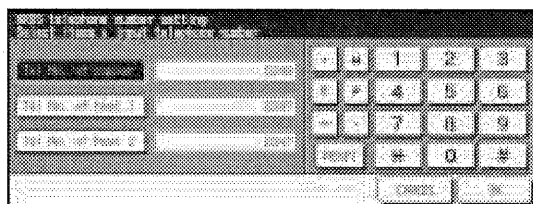
Press **[OK]** key to return to the KRDS setting mode menu Screen with the above setting stored.

Press **[CANCEL]** key to return to the KRDS setting mode menu Screen with the above setting canceled.

[3] Setting regular date & time calling**a. Flow and Explanation**

Press **[Change]** key associated with

[Regular date & time] key on the Calling time setting mode menu Screen to display the Regular date & time call setting Screen.

[Regular date & time call setting Screen]**(1) Setting the year, date, and time**

(a) Select a field to enter data. The selected field is highlighted. (The year field is highlighted when this screen is opened.)

(b) Press **[SET]** key to move the highlighted field.

(c) Enter the year, month, day and time as follows:

- The year is entered by inputting the last 2 digits of the year. (Example: 1996 is entered as 96.)
- The month and day are entered by inputting 2-digit number. (Example: 1 is entered as 01.)
- The time is entered using 24-hour system. (Example: 1:00 p.m. is entered as 13.)
- Example:
at 1:00 p.m. of January 15, 1996 -> 96/01/15-13

(2) End of setting

Press **[OK]** key to return to the Calling time setting mode menu Screen with the above setting stored.

Press **[CANCEL]** key to return to the Calling time setting mode menu Screen with the above setting canceled.

Step	Operation
1	Enter the 25 mode.
2	[Memory setting mode menu Screen] Press [10] KRDS setting.
3	[KRDS setting mode menu Screen] Press [1] Calling time setting.
4	[Calling time setting mode menu Screen] Press [Change] key associated with [Regular date & time] key.
5	[Regular date & time call setting Screen] Press [SET] key to move between fields and enter data using the numeric keys on the screen.
6	Press [OK] to end setting.

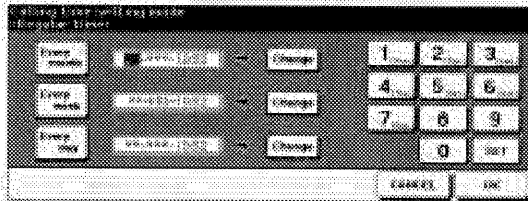
[4] Setting regular time calling

a. Flow and Explanation

Press **[Change]** key associated with

[Regular time] key on the Calling time setting mode menu Screen to display the Regular time call setting Screen.

[Regular time call setting Screen]



(1) Mode functions

- Every month mode: Call at the same time on the same day every month.
- Every week mode: Call at the same time on the same day every week.
- Every day mode: Call at the same time every day.

(2) Mode selection method

- Selecting **[Every month]** key specifies calling in the Every month mode.
- Selecting **[Every week]** key specifies calling in the Every week mode.
- Selecting **[Every day]** key specifies calling in the Every day mode.

(3) Setting the day, day of the week, and time

- Press **[Change]** key on the right of each mode.
- Enter a day of the week, hour, and minute using the numeric keys on the screen.
- For a day of the week, enter a number for the day from the numeric keys on the screen.
1: Monday 2: Tuesday 3: Wednesday
4: Thursday 5: Friday 6: Saturday
7: Sunday
- Use **[SET]** key to move between the day and time fields or between the day of the week and time fields.
- The following rules apply to entering numbers using the numeric keys on the screen:

- The day is entered with a 2-digit number from 01 to 31. (Example: 01 for 1)
- The time is entered using 24 hour-system. (Example: 13:00 for 1:00 p.m.)
- Examples:
Every month mode: 28-**-10:11
Every week mode: **-FRI-10:11
Every day mode: **_***-10:11

(4) End of setting

Press **[OK]** key to return to the Calling time setting mode menu Screen with the above setting stored.

Press **[CANCEL]** key to return to the Calling time setting mode menu Screen with the above setting canceled.

b. Procedure

Step	Operation
1	Enter the 25 mode.
2	[Memory setting mode menu Screen] Press [10] KRDS setting.
3	[KRDS setting mode menu Screen] Press [1] Calling time setting.
4	[Calling time setting mode menu Screen] Press [Change] key associated with [Regular time] key.
5	[Regular time call setting Screen] Select a mode from "every month", "every week", and "every day". To set the day etc. for a mode, press [Change] key on the right of the mode.
6	Press [CANCEL] key to cancel setting.

(i) When the every month mode is selected:

Step	Operation
1	Using the numeric keys on the screen, enter "day" and press [SET] key.
2	Using the numeric keys on the screen, enter "hour" and "minute" and press [SET] key.
3	Press [OK] key to end setting.

(ii) When the every week mode is selected:

Step	Operation
1	Using the numeric keys on the screen, enter "day of the week" and press [SET] key.
2	Using the numeric keys on the screen, enter "hour" and "minute" and press [SET] key.
3	Press [OK] key to end setting.

(iii) When the every day mode is selected:

Step	Operation
1	Using the numeric keys on the screen, enter "hour" and "minute" and press [SET] key.
2	Press [OK] key to end setting.

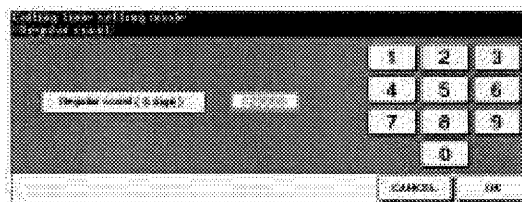
4. Setting regular count calling

a. Flow and Explanation

Press **[Change]** key associated with

[Regular count] key on the Calling time setting mode menu Screen to display the Regular count call setting Screen.

[Regular Count Call Setting Screen]



(1) Regular Count Setting method

(a) Using the numeric key on the screen, enter a 6-digit number to specify a regular count value.

(b) The entered digits appear in the thousand's position (the fourth position from the lowest) and shift to the left.

(c) The lowest three digits are always "000", which means that the lowest count value is "1000".

(2) End of setting

Press **[OK]** key to return to the Calling time setting mode menu Screen with the above setting stored.

Press **[CANCEL]** key to return to the Calling time setting mode menu Screen with the above setting canceled.

b. Procedure

Step	Operation
1	Enter the 25 mode.
2	[Memory setting mode menu Screen] Press [10] KRDS setting.
3	[KRDS setting mode menu Screen] Press [1] Calling time setting.
4	[Calling time setting mode menu Screen] Press [Change] key associated with [Regular count] key.
5	[Regular Count Call Setting Screen] Using the numeric key on the screen, enter a 6-digit regular count value.
6	Press [OK] key to end setting.

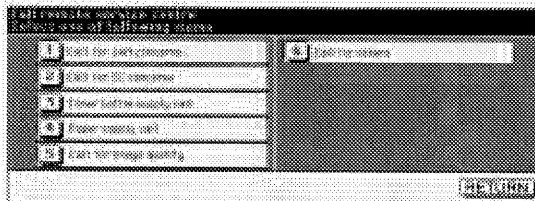
HOST CALLING

[1] KRDS Host Calling

If KRDS is connected, the key operator can call the host in the service center.

- (a) Select one of the items shown below according to the situation:

[Call remote service centre Screen]



- (b) Press to **Start** start calling the host.

[Calling remote service centre now Screen]



b. Procedure

Step	Operation
1	Select the key operator mode.
2	[Key operator mode menu Screen] Press 15 Call remote centre.
3	[Call remote service centre Screen] Select the current situation. The next screen is displayed automatically.
4	[Call remote service centre now Screen] Host calling starts.
5	Press RETURN key to end setting. The Key Operator Menu Screen is re-displayed.

REFERENCE

[1] ASCII Code

ASCII is 1 byte code specified by American National Standards Institute (ANSI).

It enables to indicate control code, alphabet and number.

character	binary		hexadecimal	character	binary		hexadecimal	character	binary		hexadecimal	character	binary		hexadecimal
	0000	0000	0		0010	0000	20	@	0100	0000	40		0110	0000	60
SH	0000	0001	1	!	0010	0001	21	A	0100	0001	41	a	0110	0001	61
SX	0000	0010	2	"	0010	0010	22	B	0100	0010	42	b	0110	0010	62
EX	0000	0011	3	#	0010	0011	23	C	0100	0011	43	c	0110	0011	63
ET	0000	0100	4	\$	0010	0100	24	D	0100	0100	44	d	0110	0100	64
EQ	0000	0101	5	%	0010	0101	25	E	0100	0101	45	e	0110	0101	65
AK	0000	0110	6	&	0010	0110	26	F	0100	0110	46	f	0110	0110	66
BL	0000	0111	7		0010	0111	27	G	0100	0111	47	g	0110	0111	67
BS	0000	1000	8	(	0010	1000	28	H	0100	1000	48	h	0110	1000	68
HT	0000	1001	9	)	0010	1001	29	I	0100	1001	49	i	0110	1001	69
LF	0000	1010	A	*	0010	1010	2A	J	0100	1010	4A	j	0110	1010	6A
HM	0000	1011	B	+	0010	1011	2B	K	0100	1011	4B	k	0110	1011	6B
CL	0000	1100	C	,	0010	1100	2C	L	0100	1100	4C	l	0110	1100	6C
CR	0000	1101	D	-	0010	1101	2D	M	0100	1101	4D	m	0110	1101	6D
S0	0000	1110	E	.	0010	1110	2E	N	0100	1110	4E	n	0110	1110	6E
S1	0000	1111	F	/	0010	1111	2F	O	0100	1111	4F	o	0110	1111	6F
DE	0001	0000	10	0	0011	0000	30	P	0101	0000	50	p	0111	0000	70
D1	0001	0001	11	1	0011	0001	31	Q	0101	0001	51	q	0111	0001	71
D2	0001	0010	12	2	0011	0010	32	R	0101	0010	52	r	0111	0010	72
D3	0001	0011	13	3	0011	0011	33	S	0101	0011	53	s	0111	0011	73
D4	0001	0100	14	4	0011	0100	34	T	0101	0100	54	t	0111	0100	74
NK	0001	0101	15	5	0011	0101	35	U	0101	0101	55	u	0111	0101	75
SN	0001	0110	16	6	0011	0110	36	V	0101	0110	56	v	0111	0110	76
EB	0001	0111	17	7	0011	0111	37	W	0101	0111	57	w	0111	0111	77
CN	0001	1000	18	8	0011	1000	38	X	0101	1000	58	x	0111	1000	78
EM	0001	1001	19	9	0011	1001	39	Y	0101	1001	59	y	0111	1001	79
SB	0001	1010	1A	:	0011	1010	3A	Z	0101	1010	5A	z	0111	1010	7A
EC	0001	1011	1B	;	0011	1011	3B	[	0101	1011	5B	{	0111	1011	7B
→	0001	1100	1C	<	0011	1100	3C	¥	0101	1100	5C	|	0111	1100	7C
←	0001	1101	1D	=	0011	1101	3D	]	0101	1101	5D	}	0111	1101	7D
↑	0001	1110	1E	>	0011	1110	3E	^	0101	1110	5E	~	0111	1110	7E
↓	0001	1111	1F	?	0011	1111	3F	_	0101	1111	5F		0111	1111	7F

[2] Data to be Processed

- For the data that KRDS can process, refer to the Service Hand Book for the copier, [7] Data Collection in the 25 mode "Adjustments."
- You can refer to the data that KRDS can process. For detailed procedure, refer to the Service Hand Book for the copier, [7] Data Collection in the 25 mode "Adjustment."

[3] How to Initialize KRDS Memory

- (1) Turn off the main switch of the copier.
- (2) Turn on the main switch while holding both the copy quantity setting button 4 and 7 simultaneously.
- (3) Press the start print button after pressing the copy quantity setting button 1, 5 and P button, then 9, 8, finally P button again.

I/O Check mode

<15-98> IN : --OUT : NOW

- (4) "NOW" indication will be changed to "FIN" on the message display.
- (5) Turn off the main switch of the copier.

[4] Caution

Be sure to turn ON the main power of the 7165 main body if the modem power is turned OFF and ON with the main power OFF.

Reason: To initialize the modem.

(When the KRDS board is powered, it automatically initializes the modem following the modem power ON and OFF operations.

When the main power of the 7165 main body is OFF, however, the KRDS board is not powered and does not initialize the modem after the modem power ON and OFF operations.

Some types of modem cannot start communication with KRDS unless they are initialized by the KRDS board.)

[5] Error Code Table

Error Code	Contents	Countermeasure
K00_00	Connection NG. (No CONNECT from modem, Time out.)	Redial, repeat reception standby.
K00_01	No response from other party. (No detection of start text from host after establishing connection.)	Redial, repeat reception standby.
K00_02	Because copying is taking place, it is impossible to write to the non-volatile RAM and the line is cut.	Temporarily stop copying.
K00_03	Password does not match.	Check password.
K00_04	Serial number does not match.	Check serial number.
K00_05	Syntactical error. (When undefined commands or parameters come.)	Redial.
K00_06	Write-in indication on an item for which write-in is impossible.	
K00_07	Unread item error.	
K00_08	Signal reception time-out after detection other party response. (After communications of start text have ended.)	Redial.
K00_09	Serial number registration completed.	
K00_10	Communications error due to generation of carrier OFF. (No CARRIER detected from the modem.)	Redial.
K00_11	Dial tone (NO DIALTONE detected from the modem.)	Redial.
K00_12	Busy signal (BUSY) detected from the modem.	Redial.
K00_13	NO ANSWER detected from the modem.	Redial.
K00_14	Received text error. (Irregular text has received.)	
K00_15	The Host computer has not registered the serial number. (4 x 40 text received.)	
K00_16	Error not defined by the numbers (_00 to _15 above : the last two digits)	Redial
K00_17	The telephone number of the host to be called has not been registered.	
K01_00	DSR went to OFF or in OFF state.	
K01_01	Error in making message queue.	
K01_02	Error in making task.	
K01_03	Error in transmitting message.	
K01_04	Error in receiving message.	
K01_05	Error (NG) received from timer task.	
K02_01	Modem initializing NG.	
K03_00	Host calling buffer is full. Impossible to stay any longer.	