

[10] TEST COMMAND, TROUBLE CODES

1. Entering the test command mode

To enter the serviceman test command mode, press the keys as follows:

[#] key → [*] key → [C] key → [*] key

To cancel the test command mode, press the [CA] key.

2. Key rule

- [10KEY]: Entry of MAIN CODE/SUB CODE
 Selection of an item
 Setup of an adjustment value in case of test commands for adjustment
- [←/→]: Selection of MAIN CODE/SUB CODE
 Selection of an item
- [ENTER/START]: Settlement
 <In case of test commands for print>
 [ENTER]: Settlement (Without print)
 [START]: Settlement/Print
- [C]: (Interrupting operation check) Returns to the upper hierarchy.
 In case of test command of operation check, terminates the operations.
- [CA]: Exits from the test command mode.
 For a test command of adjustment, the display returns to the initial display (00-00).

3. List of test commands

Main code	Sub code	Contents
1	01	Mirror scan (SCAN CHK)
	02	Mirror home position sensor (MHPS) status display (MHP-SENSOR)
	06	Mirror scan aging (SCAN AGING)
2	01	Single Paper Feeder (SPF) aging (SPF AGING) (Disabled when set to OC)
	02	SPF sensor status display (SPF SENSOR) (Disabled when set to OC)
	03	SPF motor operation check (SPF MOTOR CHK) (Disabled when set to OC)
	06	RSPF resist clutch operation check (RSPF RES.CHK) (Enabled only when RSPF is set.)
	08	SPF paper feed solenoid operation check (SPF SPUS CHK) (Disabled when set to OC)
	09	RSPF reverse solenoid operation check (RSPF SPFS CHK) (Enabled only when RSPF is set.)
	10	RSPF paper exit gate solenoid operation check (RSPF SGS CHK) (Enabled only when RSPF is set.)
3	03	Shifter operation check (SHIFTER CHK)
5	01	Operation panel display check (LCD/LED CHK)
	02	Fusing lamp, cooling fan operation check (HT LAMP CHK)
	03	Copy lamp ON check (C-LAMP CHK)
6	01	Paper feed solenoid (CPFS1, CPFS2, MPFS) operation check (PSOL CHK)
	02	Resist roller solenoid (RRS) operation check (RES.R SOL CHK)
7	01	Check of warm-up display and aging with JAM (W-UP/AGING)
	06	Interval aging (INTERVAL AGING)
	08	Shift to copy with warm-up display (W-UP C-MODE)
8	01	Developing bias output (DVLP BIAS SET.)
	02	Main charger output (Grid HIGH) (MHV(H) SET.)
	03	Main charger output (Grid LOW) (MHV(L) SET.)
	06	Transfer charger output (THV SET.)

Main code	Sub code	Contents
9	01	Duplex motor normal rotation check (DPLX ROT.) (Enabled when Duplex setting is ON)
	02	Duplex motor reverse rotation check (DPLX ROT.REV.) (Enabled when Duplex setting is ON)
	04	Duplex motor rotating speed adjustment (DPLX ROT.SPEED) (Enabled when Duplex setting is ON)
10	00	Toner motor operation (TONER MOTOR)
14	00	Cancel of trouble other than U2 (TRBL CANC.)
16	00	U2 trouble cancel (U2 TRBL CANC.)
20	01	Maintenance counter clear (M-CNT CLR.)
21	01	Maintenance cycle setting (M-CYCLE)
22	01	Maintenance counter display (M-CNT)
	02	Maintenance preset display (M-CNT PRESET)
	04	JAM total counter display (JAM TTL CNT)
	05	Total counter display (TTL CNT)
	06	Developer counter display (DVLP CNT)
	08	SPF counter display (SPF CNT) (Disabled when set to OC)
	11	FAX-related counter display (Executable only when the FAX is installed.)
	12	Drum counter display (DRUM CNT)
	13	CRUM type display (CRUM TYPE)
	14	ROM version display (ROM VER.)
16	Duplex counter display (DPLX CNT) (Enabled when Duplex setting is ON)	
17	Copy counter display (COPIES CNT)	
18	Printer counter display (PRT.CNT)	
19	Scanner mode counter display (S-MODE CNT)	
21	Scanner counter display (SCAN CNT)	
22	SPF JAM counter display (S JAM CNT) (Disabled when set to OC)	


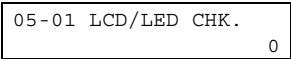
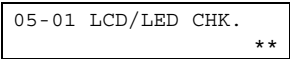
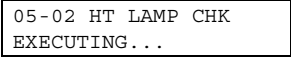
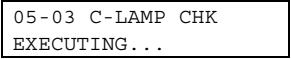
Main code	Sub code	Contents	
24	01	JAM total counter clear (JAM TTL CLR.)	
	04	SPF counter clear (SPF CLR.) (Disabled when set to OC)	
	05	Duplex counter clear (DPLX CLR.) (Enabled when Duplex setting is ON)	
	06	Developer counter clear (DVLPL CLR.)	
	07	Drum counter clear (DRUM CLR.)	
	08	Copy counter clear (COPIES CLR.)	
	09	Printer counter clear (PRT.CLR.)	
	10	FAX counter clear (FAX CLR.) (Executable only when the FAX is installed.)	
	13	Scanner counter clear (SCAN CLR.)	
	14	SPF JAM total counter clear (S JAM TTL CLR.) (Disabled when set to OC)	
	15	Scanner mode counter clear (S-MODE CLR.)	
	25	01	Main motor operation check (MAIN MOTOR CHK)
		10	Polygon motor operation check (LSU CHK)
	26	02	(R)SPF setting (SPF/RSPF)
		03	Second cassette setting (2ND TRAY)
04		Main unit duplex setting (DPLX)	
06		Destination setting (DESTINATION)	
07		Machine conditions check (CPM)	
20		Rear edge void setting (END EDGE)	
30		CE mark support control ON/OFF (CE MARK)	
37		Cancel of stop at developer life over (DVLPL LIFE END)	
39		Memory capacity check (MEM.CHK)	
40		Polygon motor OFF time setting (Time required from completion of printing to turning OFF the motor) (LSU MOTOR OFF)	
42		Transfer ON timing control setting (TC ON TIMING)	
43		Side void amount setting (SIDE VOID)	
62		Energy-save mode copy lamp setting (C-LAMP E-S)	
30	01	Paper sensor status display (P-SENSOR)	
41	06	OC cover float detection level (OC FLOAT LEVEL) (Disabled when set to OC)	
43	01	Fusing temperature setting (Normal copy) (FU TEMP)	
	04	Fusing temperature setting in multi coy (FU TEMP MULTI)	
	05	Fusing temperature setting in duplex copy (FU TEMP DPLX) (Enabled when Duplex setting is ON)	
	14	Fusing start temperature setting (FU TEMP START)	
46	01	Copy density adjustment (300dpi) (EXP.LEVEL 300)	
	02	Copy density adjustment (600dpi) (EXP.LEVEL 600)	
	12	Density adjustment in the FAX mode (Collective adjustment) (Executable only when the FAX is installed.)	
	13	FAX mode density adjustment (normal text) (Executable only when the FAX is installed.)	
	14	FAX mode density adjustment (Fine text) (Executable only when the FAX is installed.)	
	15	FAX mode density adjustment (Super fine) (Executable only when the FAX is installed.)	
	18	Image contrast adjustment (300dpi) (GAMMA 300)	
	19	Exposure mode setting (AE MODE)	
	20	SPF exposure correction (EXP.LEVEL SPF) (Disabled when set to OC)	
	29	Image contrast adjustment (600dpi) (GAMMA 600)	
	30	AE limit adjustment (AE LIMIT)	
	31	Image sharpness adjustment (SHARPNESS)	
	32	Copier color reproduction setting (COLOR REAPPEAR)	
39	FAX mode sharpness adjustment (Executable only when the FAX is installed.)		

Main code	Sub code	Contents
48	01	Mains can/sub scan direction magnification ratio (COPY MAG.)
	05	SPF/RSPF mode sub scan direction magnification ratio in copying (SPF/RSPF MAG.) (Disabled when set to OC)
49	01	Download mode (DOWNLOAD MODE)
50	01	Lead edge image position (LEAD EDGE)
	06	Copy lead edge position adjustment (SPF/RSPF) (SPF/RSPF EDGE) (Disabled when set to OC)
	10	Print center offset adjustment (PRT.OFF-CENTER)
	12	Document feed off-center adjustment (ORG.OFF-CENTER)
	18	Memory reverse position adjustment in duplex copy (DPLX REVERSE) (Enabled when Duplex setting is ON with OC or SPF set)
	19	Duplex copy rear edge void adjustment (DPLX END EDGE) (Enabled when Duplex setting is ON)
	51	02
53	08	SPF scan position automatic adjustment (SPF AUTO) (Disabled when set to OC)
61	03	HSYNC output check (LSU CHK)
63	01	Shading check (SHADING CHK)
	02	Black level automatic correction (BLACK LEVEL)
64	01	Self print (1by2 mode) (SELF PRT.)
66	01	FAX soft SW setting (Executable only when the FAX is installed.)
	02	FAX soft SW initializing (excluding the adjustment values) (Executable only when the FAX is installed.)
	03	FAX PWB memory check (Executable only when the FAX is installed.)
	04	Signal send mode (Max. value) (Executable only when the FAX is installed.)
	05	Signal send mode (Soft SW set value) (Executable only when the FAX is installed.)
	07	Image memory content print (Executable only when the FAX is installed.)
	10	Image memory content clear (Executable only when the FAX is installed.)
	11	300bps signal send (Max. value) (Executable only when the FAX is installed.)
	12	300bps signal send (Soft SW set value) (Executable only when the FAX is installed.)
	13	Dial test (Executable only when the FAX is installed.)
	17	DTMF signal send (Max. value) (Executable only when the FAX is installed.)
	18	DTMF signal send (Soft SW set value) (Executable only when the FAX is installed.)
	21	FAX information print (Executable only when the FAX is installed.)
	24	FAST SRAM clear (Executable only when the FAX is installed.)
	30	TEL/LIU status change check (Executable only when the FAX is installed.)
	32	Receive data check (Executable only when the FAX is installed.)
	33	Signal detection check (Executable only when the FAX is installed.)
34	Communication time measurement (Executable only when the FAX is installed.)	
37	Speaker sound volume setting (Executable only when the FAX is installed.)	
38	Time setting/check (Executable only when the FAX is installed.)	
41	CI signal check (Executable only when the FAX is installed.)	

4. Descriptions of various test commands

Main code	Sub code	Contents	Details of function/operation								
1	01	Mirror scan (SCAN CHK)	<p>[Function] When [ENTER/START] key is pressed, the home position is checked and the mirror base performs full scan at the speed of the set magnification ratio. During operation, the set magnification ratio is displayed. The mirror home position sensor status is displayed with the "COPY mode lamp". (When the mirror is in the home position, the lamp lights up.) During operation, the copy lamp lights up. When [C] key is pressed, if the operation is on the way, it is terminated and the machine goes to the sub code entry standby mode.</p> <p>[Operation] 1) Initial display <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 30%;">01-01 SCAN CHK - 100% +</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">2) [←] 01-01 SCAN CHK - 99% +</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">3) [ENTER/START] 01-01 SCAN CHK EXECUTING... - 78% +</div> </div> 2) [ZOOM] <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px; width: 30%;">01-01 SCAN CHK - 78% +</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">2) [→] 01-01 SCAN CHK - 101% +</div> </div> </p>								
	02	Mirror home position sensor (MHPS) status display (MHP-SENSOR)	<p>[Function] Monitors the mirror home position sensor, and makes the "COPY mode lamp" turn on during the sensor ON status.</p> <p>[Operation] 1) Initial display <div style="border: 1px solid black; padding: 2px; width: 100%;">01-02 MHP-SENSOR EXECUTING...</div> </p>								
	06	Mirror scan aging (SCAN AGING)	<p>[Function] When [ENTER/START] key is pressed, the mirror base performs full scan at the speed of the set magnification ratio. During operation, the set magnification ratio is displayed. After 3sec, the mirror base performs full scan again. * When [ENTER/START] key is pressed once, the ready lamp remains OFF. The mirror home position sensor status is displayed on the "COPY mode lamp." (The lamp is ON when the mirror is in the home position.) During aging, the copy lamp is ON.</p> <p>[Operation] The operation is similar to test command 1-01.</p>								
2	01	Single Paper Feeder (SPF) aging (SPF AGING) (Disabled when set to OC)	<p>[Function] When [ENTER/START] key is pressed, the set magnification ratio is acquired and single-face document transport is performed in the case of SPF or duplex document transport in the case of R-SPF. However, the operating conditions don't matter and the operation is not stopped even in case of a jam. Also the magnification ratio is displayed on the LCD.</p> <p>[Operation] The operation is similar to test command 1-01.</p>								
	02	SPF sensor status display (SPF SENSOR) (Disabled when set to OC)	<p>[Function] The ON/OFF status of the SPF sensors can be checked with the LCD. When a sensor is ON, the sensor name is displayed on the LCD.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sensor</th> <th>Display item</th> </tr> </thead> <tbody> <tr> <td>Document set sensor</td> <td>SPID</td> </tr> <tr> <td>SPF document transport sensor</td> <td>SPPD</td> </tr> <tr> <td>SPF paper feed cover open/close sensor</td> <td>SDSW</td> </tr> </tbody> </table> <p>[Operation] 1) Initial display <div style="border: 1px solid black; padding: 2px; width: 100%;">02-02 SPF SENSOR</div> 2) When the sensor is ON: <div style="border: 1px solid black; padding: 2px; width: 100%;">02-02 SPF SENSOR SPID SPPD SDSW</div> </p>	Sensor	Display item	Document set sensor	SPID	SPF document transport sensor	SPPD	SPF paper feed cover open/close sensor	SDSW
Sensor	Display item										
Document set sensor	SPID										
SPF document transport sensor	SPPD										
SPF paper feed cover open/close sensor	SDSW										
	03	SPF motor operation check (SPF MOTOR CHK) (Disabled when set to OC)	<p>[Function] When [ENTER/START] key is pressed, the motor rotates for 10sec at the speed corresponding to the set magnification ratio.</p> <p>[Operation] The operation is similar to test command 1-01.</p>								

Main code	Sub code	Contents	Details of function/operation
2	06	RSPF resist clutch operation check (RSPF RES.CHK) (Enabled only when RSPF is set.)	<p>[Function] When [ENTER/START] key is pressed, the RSPF resist clutch (SRRC) repeats ON for 500ms and OFF for 500ms 20 times.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">02-06 RSPF RES.CHK EXECUTING...</div>
	08	SPF paper feed solenoid operation check (SPF SPUS CHK) (Disabled when set to OC)	<p>[Function] The SPF paper feed solenoid (SPUS) repeats ON for 500ms and OFF for 500ms 20 times by the use of the solenoid drive control Bios.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">02-08 SPF SPUS CHK EXECUTING...</div>
	09	RSPF reverse solenoid operation check (RSPF SPFS CHK) (Enabled only when RSPF is set.)	<p>[Function] The SPF reverse solenoid (SPFS) repeats ON for 500ms and OFF for 500ms 20 times by the use of the solenoid drive control Bios.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">02-09 RSPF SPFS CHK EXECUTING...</div>
	10	RSPF paper exit gate solenoid operation check (RSPF SGS CHK) (Enabled only when RSPF is set.)	<p>[Function] The SPF paper exit gate solenoid (SGS) repeats ON for 500ms and OFF for 500ms 20 times by the use of the solenoid drive control Bios.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">02-10 RSPF SGS CHK EXECUTING...</div>
3	03	Shifter operation check (SHIFTER CHK)	<p>[Function] The shifter is moved back and forth in four reciprocations.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">03-03 SHIFTER CHK EXECUTING...</div>

Main code	Sub code	Contents	Details of function/operation
5	01	Operation panel display check (LCD/LED CHK)	<p>[Function] <LED check mode (All ON/Individual ON)> When [ENTER/START] key is pressed, all the LCD's on the operation panel are turned ON (all pixels ON). After 5sec of ON, the machine goes into the sub code entry standby mode. When [MODE SWITCH] key is pressed under the all ON state, the mode is shifted to the individual ON mode, where the LED's are turned on one by one from the left upper end to the left lower side then from the right upper side to the right lower side. (All the pixels of LCD are lighted simultaneously.) After lighting all the LCD's sequentially, all the LCD's are lighted simultaneously. After 5sec from lighting all the LCD's simultaneously, the machine goes into the sub code entry standby mode. (Cycle of individual ON mode: ON 300ms, OFF 20ms) When [C] key is pressed in the LED check mode, the machine goes into the sub code entry standby mode. When [START] key is pressed, the machine goes into the key input check mode.</p> <p><Key input check mode> When the machine goes into the key input check mode, the LCD displays 0. When any key is pressed after pressing a key on the operation panel, "+1" is added to the value. Once a key is pressed, it is not recounted. When [START] key is pressed, counting is made and the machine goes into the LED ON check mode (LED all ON status) after 3sec. When [C] key is pressed for the first time, it is counted. When it is pressed for the second time, the machine goes into the sub code entry mode. When [CA] key is pressed for the first time, it is counted. When it is pressed for the second time, the machine goes out from the test command mode.</p> <p>(Note in the key input check mode)</p> <ul style="list-style-type: none"> • Be sure to press [START] key at the last. (If it is pressed on the way, the machine goes into the LED ON check mode.) (LED all ON status) • Multi key input is ignored. <p>[Operation] <LED check mode (All ON/Individual ON)> 1) Initial display  2) When [MODE SWITCH] key is pressed, the machine goes into the individual ON mode.</p> <p><Key input check mode> 1) Initial display  2) [ENTER/START] </p>
	02	Fusing lamp, cooling fan operation check (HT LAMP CHK)	<p>[Function] When [ENTER/START] key is pressed, the fusing lamp repeats ON for 500ms and OFF for 500ms 5 times. During this period, the cooling fan motor rotates.</p> <p>[Operation] 1) Initial display </p>
	03	Copy lamp ON check (C-LAMP CHK)	<p>[Function] When [ENTER/START] key is pressed, the copy lamp turns ON for 5sec.</p> <p>[Operation] 1) Initial display </p>

Main code	Sub code	Contents	Details of function/operation												
6	01	Paper feed solenoid (CPFS1, CPFS2, MPFS) operation check (PSOL CHK)	<p>[Function] When [ENTER/START] key is pressed, the selected paper feed solenoid repeats ON for 500ms and OF for 500ms 20times. When [←/→/10KEY] is pressed, the paper feed solenoid setting is switched.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Setting</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>CPFS1</td> <td></td> </tr> <tr> <td>1</td> <td>CPFS2</td> <td>Operation is possible only when No. 2 cassette is installed.</td> </tr> <tr> <td>2</td> <td>MPFS</td> <td></td> </tr> </tbody> </table> <p>[Operation] 1) Initial display <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">06-01 PSOL CHK 0:CPFS1</div> <div style="border: 1px solid black; padding: 2px;">06-01 PSOL CHK 2:MPFS</div> </div> 2) [←/10KEY] <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">06-01 PSOL CHK 1:CPFS2</div> <div style="border: 1px solid black; padding: 2px;">06-01 PSOL CHK EXECUTING...</div> </div> 4) Returns to the initial display.</p>	Code number	Setting	Remark	0	CPFS1		1	CPFS2	Operation is possible only when No. 2 cassette is installed.	2	MPFS	
	Code number	Setting	Remark												
0	CPFS1														
1	CPFS2	Operation is possible only when No. 2 cassette is installed.													
2	MPFS														
02	Resist roller solenoid (RRS) operation check (RES.R SOL CHK)	<p>[Function] When [ENTER/START] key is pressed, the resist solenoid repeats ON for 500ms and OFF for 500ms 20 times.</p> <p>[Operation] 1) Initial display <div style="border: 1px solid black; padding: 2px;">06-02 RES.R SOL CHK EXECUTING...</div></p>													
7	01	Check of warm-up display and aging with JAM (W-UP/AGING)	<p>[Function] Copying is repeated to make the set quantity of copies. When the test command is executed, warm-up is started and warm-up time is added for every second from 0 and displayed. When warm-up is completed, addition is stopped. When [CA] key is pressed, the ready lamp lights up. After that, enter the copy quantity with [10KEY] and press [ENTER/START] key to repeat copying of the set quantity (interval 0sec). To cancel the test command, turn off the power or execute a test command which causes hardware reset.</p> <p>[Operation] 1) Initial display <div style="border: 1px solid black; padding: 2px;">07-01 W-UP/AGING 0</div> 2) After 10sec <div style="border: 1px solid black; padding: 2px;">07-01 W-UP/AGING 10</div></p>												
	06	Interval aging (INTERVAL AGING)	<p>[Function] Copying is repeated to make the set quantity of copies. When the test command is executed, warm-up is performed and the ready lamp is lighted. Enter the copy quantity with the [10KEY] and press [ENTER/START] key, and copying is executed to make the set quantity of copies, and the ready state is kept for 3sec, and copying is executed again to make the set quantity of copies. These operations are repeated. To cancel the test command, turn off the power or execute a test command which executes hardware reset.</p> <p>[Operation] 1) Initial display (Basic display of copy) <div style="border: 1px solid black; padding: 2px;">READY TO COPY 100% A4 0</div></p>												
	08	Shift to copy with warm-up display (W-UP C-MODE)	<p>[Function] Enter the test command code, and warm-up is started and warm-up time is counted for every second from 0 and displayed. When [CA] key is pressed during counting up, "0" is displayed on the display and counting is stopped. However, warm-up is continued. After completion of warm-up, counting is terminated. (The aging function is removed from test command 7-01.)</p> <p>[Operation] 1) Initial display <div style="border: 1px solid black; padding: 2px;">07-08 W-UP C-MODE 0</div> 2) After 10sec <div style="border: 1px solid black; padding: 2px;">07-08 W-UP C-MODE 10</div></p>												

Main code	Sub code	Contents	Details of function/operation																					
10	00	Toner motor operation (TONER MOTOR)	<p>[Function] When [ENTER/START] key is pressed, the toner motor is rotated for 30sec. After completion of this process, the machine goes into the main code entry standby mode.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 10-00 TONER MOTOR EXECUTING... </div>																					
14	00	Cancel of trouble other than U2 (TRBL CANC.)	<p>[Function] Used to cancel troubles other than U2. * Cancel troubles such as H trouble which writes data into EEPROM, and perform hardware reset.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 14-00 TRBL CANC. CLEARED </div>																					
16	00	U2 trouble cancel (U2 TRBL CANC.)	<p>[Function] Used to cancel U2 trouble. When [ENTER/START] key is pressed, check sum of the total counter in the EEPROM is rewritten and hardware reset is made.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 16-00 U2 TRBL CANC. CLEARED </div>																					
20	01	Maintenance counter clear (M-CNT CLR.)	<p>[Function] When [ENTER/START] key is pressed, the maintenance count value is cleared and "000,000" is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 20-01 M-CNT CLR. CLEARED 000,000 </div>																					
21	01	Maintenance cycle setting (M-CYCLE)	<p>[Function] The code of the currently set maintenance cycle value is displayed (initial display) and the set data are saved.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Code</th> <th>Setting</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>3,000 sheets</td> <td></td> </tr> <tr> <td>1</td> <td>6,000 sheets</td> <td></td> </tr> <tr> <td>2</td> <td>9,000 sheets</td> <td></td> </tr> <tr> <td>3</td> <td>13,000 sheets</td> <td></td> </tr> <tr> <td>4</td> <td>25,000 sheets</td> <td>Default</td> </tr> <tr> <td>5</td> <td>Free (999,999 sheets)</td> <td></td> </tr> </tbody> </table> <p>[Operation] 1) The current set value is displayed.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 21-01 M-CYCLE 4:25,000 (0-5) </div> <p>2) [→/10KEY]</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 21-01 M-CYCLE 5:FREE (0-5) </div> <p>3) [ENTER/START]</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 21-01 M-CYCLE 5:FREE (0-5) </div> <p>2) [←/10KEY]</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 21-01 M-CYCLE 3:13,000 (0-5) </div>	Code	Setting	Remark	0	3,000 sheets		1	6,000 sheets		2	9,000 sheets		3	13,000 sheets		4	25,000 sheets	Default	5	Free (999,999 sheets)	
Code	Setting	Remark																						
0	3,000 sheets																							
1	6,000 sheets																							
2	9,000 sheets																							
3	13,000 sheets																							
4	25,000 sheets	Default																						
5	Free (999,999 sheets)																							
22	01	Maintenance counter display (M-CNT)	<p>[Function] The maintenance counter is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-01 M-CNT ***,*** </div>																					

Main code	Sub code	Contents	Details of function/operation
22	02	Maintenance preset display (M-CNT PRESET)	<p>[Function] The quantity (25,000 sheets, etc.) corresponding to the code set with TC21-01 is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-02 M-CNT PRESET ***,*** </div>
	04	JAM total counter display (JAM TTL CNT)	<p>[Function] The JAM total counter is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-04 JAM TTL CNT ***,*** </div>
	05	Total counter display (TTL CNT)	<p>[Function] The total counter value is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-05 TTL CNT ***,*** </div>
	06	Developer counter display (DVLP CNT)	<p>[Function] The developer counter data is acquired and displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-06 DVLP CNT ***,*** </div>
	08	SPF counter display (SPF CNT) (Disabled when set to OC)	<p>[Function] The SPF counter is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-08 SPF CNT ***,*** </div>
	11	FAX-related counter display (Executable only when the FAX is installed.)	<p>[Function] The FAX-related counter is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> SELECT COUNTER 1:PAGE 2:TIME </div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>2) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> SEND PAGE : xxx,xxx RECV PAGE : xxx,xxx </div> <p>("xxx,xxx" is the current value.) * [CLEAR] key: Returns to "1) Initial display".</p> <p>2) Select 2</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> TX TIME : xxxx : xx .xx RX TIME : xxxx : xx .xx </div> <p>("xxxx: xx. xx" is the current value.) * [CLEAR] key: Returns to "1) Initial display".</p>
	12	Drum counter display (DRUM CNT)	<p>[Function] The drum counter is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-12 DRUM CNT ***,*** </div>

Main code	Sub code	Contents	Details of function/operation																			
22	13	CRUM type display (CRUM TYPE)	<p>[Function] When the test command is executed, the CRUM type currently set (written) in the CRUM chip is displayed.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>CRUM type</th> <th>Display item</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Not set</td> <td>0</td> </tr> <tr> <td>01</td> <td>BTA-A</td> <td>BTA-A</td> </tr> <tr> <td>02</td> <td>BTA-B</td> <td>BTA-B</td> </tr> <tr> <td>03</td> <td>BTA-C</td> <td>BTA-C</td> </tr> <tr> <td>99</td> <td>Conversion</td> <td>CONVERSION</td> </tr> </tbody> </table> <p>[Operation] 1) The CRUM type is displayed.</p> <table border="1"> <tr> <td>22-13 CRUM TYPE 01:BTA-A</td> </tr> </table>	Code number	CRUM type	Display item	00	Not set	0	01	BTA-A	BTA-A	02	BTA-B	BTA-B	03	BTA-C	BTA-C	99	Conversion	CONVERSION	22-13 CRUM TYPE 01:BTA-A
Code number	CRUM type	Display item																				
00	Not set	0																				
01	BTA-A	BTA-A																				
02	BTA-B	BTA-B																				
03	BTA-C	BTA-C																				
99	Conversion	CONVERSION																				
22-13 CRUM TYPE 01:BTA-A																						
14		ROM version display (ROM VER.)	<p>[Function] The P-ROM version is displayed. Press [←/→/10KEY] to switch the display version.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Version</th> <th>Display item</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Main unit Program</td> <td>MAIN PROG.</td> </tr> <tr> <td>1</td> <td>F-IMC Program</td> <td>F-IMC PROG.</td> </tr> <tr> <td>2</td> <td>LCD DATA</td> <td>LCD DATA</td> </tr> </tbody> </table> <p>[Operation] 1) Initial display</p> <table border="1"> <tr> <td>22-14 ROM VER. MAIN PROG. 00.00</td> </tr> </table> <p>2) [→/10KEY]</p> <table border="1"> <tr> <td>22-14 ROM VER. F-IMC PROG. 00.00</td> </tr> </table> <p>2) [←/10KEY]</p> <table border="1"> <tr> <td>22-14 ROM VER. LCD DATA 00.00</td> </tr> </table>	Code number	Version	Display item	0	Main unit Program	MAIN PROG.	1	F-IMC Program	F-IMC PROG.	2	LCD DATA	LCD DATA	22-14 ROM VER. MAIN PROG. 00.00	22-14 ROM VER. F-IMC PROG. 00.00	22-14 ROM VER. LCD DATA 00.00				
Code number	Version	Display item																				
0	Main unit Program	MAIN PROG.																				
1	F-IMC Program	F-IMC PROG.																				
2	LCD DATA	LCD DATA																				
22-14 ROM VER. MAIN PROG. 00.00																						
22-14 ROM VER. F-IMC PROG. 00.00																						
22-14 ROM VER. LCD DATA 00.00																						
16		Duplex counter display (DPLX CNT) (Enabled when Duplex setting is ON)	<p>[Function] The duplex counter is displayed.</p> <p>[Operation] 1) Initial display</p> <table border="1"> <tr> <td>22-16 DPLX CNT ***,***</td> </tr> </table>	22-16 DPLX CNT ***,***																		
22-16 DPLX CNT ***,***																						
17		Copy counter display (COPIES CNT)	<p>[Function] The copy counter is displayed.</p> <p>[Operation] 1) Initial display</p> <table border="1"> <tr> <td>22-17 COPIES CNT ***,***</td> </tr> </table>	22-17 COPIES CNT ***,***																		
22-17 COPIES CNT ***,***																						
18		Printer counter display (PRT.CNT)	<p>[Function] The printer counter is displayed.</p> <p>[Operation] 1) Initial display</p> <table border="1"> <tr> <td>22-18 PRT.CNT ***,***</td> </tr> </table>	22-18 PRT.CNT ***,***																		
22-18 PRT.CNT ***,***																						
19		Scanner mode counter display (S-MODE CNT)	<p>[Function] The scanner mode counter is displayed.</p> <p>[Operation] 1) Initial display</p> <table border="1"> <tr> <td>22-19 S-MODE CNT ***,***</td> </tr> </table>	22-19 S-MODE CNT ***,***																		
22-19 S-MODE CNT ***,***																						

Main code	Sub code	Contents	Details of function/operation
22	21	Scanner counter display (SCAN CNT)	<p>[Function] The scanner counter is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-21 SCAN CNT ***,*** </div>
	22	SPF JAM counter display (S JAM CNT) (Disabled when set to OC)	<p>[Function] The SPF JAM counter is displayed.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 22-22 S JAM CNT ***,*** </div>
24	01	JAM total counter clear (JAM TTL CLR.)	<p>[Function] When [ENTER/START] key is pressed, the JAM total counter is cleared to 0 and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-01 JAM TTL CLR. CLEARED 000,000 </div>
	04	SPF counter clear (SPF CLR.) (Disabled when set to OC)	<p>[Function] When [ENTER/START] key is pressed, the SPF counter value is cleared to 0 and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-04 SPF CLR. CLEARED 000,000 </div>
	05	Duplex counter clear (DPLX CLR.) (Enabled when Duplex setting is ON)	<p>[Function] When [ENTER/START] key is pressed, the duplex counter value is cleared to 0, and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-05 DPLX CLR. CLEARED 000,000 </div>
	06	Developer counter clear (DVLP CLR.)	<p>[Function] When [ENTER/START] key is pressed, the developer counter value is cleared to 0, and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-06 DVLP CLR. CLEARED 000,000 </div>
	07	Drum counter clear (DRUM CLR.)	<p>[Function] When [ENTER/START] key is pressed, the drum counter value is cleared to 0, and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-07 DRUM CLR. CLEARED 000,000 </div>
	08	Copy counter clear (COPIES CLR.)	<p>[Function] When [ENTER/START] key is pressed, the copy counter value is cleared to 0, and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-08 COPIES CLR. CLEARED 000,000 </div>

Main code	Sub code	Contents	Details of function/operation
24	09	Printer counter clear (PRT.CLR.)	<p>[Function] When [ENTER/START] key is pressed, the printer counter value is cleared to 0, and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-09 PRT.CLR. CLEARED 000,000 </div>
	10	FAX counter clear (FAX CLR.) (Executable only when the FAX is installed.)	<p>[Function] When PRINT switch is pressed, the FAX count value is set to 0 and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-10 FAX CLR. CLEARED 000,000 </div>
	13	Scanner counter clear (SCAN CLR.)	<p>[Function] When [ENTER/START] key is pressed, the scanner counter value is cleared to 0, and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-13 SCAN CLR. CLEARED 000,000 </div>
	14	SPF JAM total counter clear (S JAM TTL CLR.) (Disabled when set to OC)	<p>[Function] When [ENTER/START] key is pressed, the SPF JAM total counter value is cleared to 0, and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-14 S JAM TTL CLR. CLEARED 000,000 </div>
	15	Scanner mode counter clear (S-MODE CLR.)	<p>[Function] When [ENTER/START] key is pressed, the scanner mode counter value is cleared to 0, and "000,000" is displayed on the LCD.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 24-15 S-MODE CLR. CLEARED 000,000 </div>
25	01	Main motor operation check (MAIN MOTOR CHK)	<p>[Function] When [ENTER/START] key is pressed, the main motor (and the duplex motor in the case of a duplex model) is operated for 30sec. To reduce toner consumption, if the developing unit is installed, the developing bias, the main charger, and the grid are also outputted. In this case, laser discharge is required when stopping the motor, the polygon motor is also operated at the same time. Check for installation of the developing unit. If it is not installed, the high voltage above is not outputted and only the motor is rotated. To check the developing bias, install the developing unit. After completion of 30sec operation, the machine goes into the sub code entry standby mode.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 25-01 MAIN MOTOR CHK EXECUTING . . . </div>
	10	Polygon motor operation check (LSU CHK)	<p>[Function] When [ENTER/START] key is pressed, the Bios is called to rotate the polygon motor for 30sec. After completion of 30sec operation, the operation is turned off with the Bios and the machine goes into the sub code entry standby mode.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 25-10 LSU CHK EXECUTING . . . </div>

Main code	Sub code	Contents	Details of function/operation																							
26	02	(R)SPF setting (SPF/RSPF)	<p>[Function] When this test command is executed, the current set SPF is displayed. Enter the code number corresponding to the desired SPF and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>SPF</th> <th>Display item</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>SPF NO</td> <td>SPF OFF</td> </tr> <tr> <td>1</td> <td>SPF YES</td> <td>SPF ON</td> </tr> <tr> <td>2</td> <td>RSPF YES</td> <td>RSPF ON</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	SPF	Display item	0	SPF NO	SPF OFF	1	SPF YES	SPF ON	2	RSPF YES	RSPF ON											
Code number	SPF	Display item																								
0	SPF NO	SPF OFF																								
1	SPF YES	SPF ON																								
2	RSPF YES	RSPF ON																								
	03	Second cassette setting (2ND TRAY)	<p>[Function] When this test command is executed, the current set second cassette is displayed. Enter the code number corresponding to the desired second cassette and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Second cassette</th> <th>Display item</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Second cassette NO</td> <td>OFF</td> </tr> <tr> <td>1</td> <td>Second cassette YES</td> <td>ON</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	Second cassette	Display item	0	Second cassette NO	OFF	1	Second cassette YES	ON														
Code number	Second cassette	Display item																								
0	Second cassette NO	OFF																								
1	Second cassette YES	ON																								
	04	Main unit duplex setting (DPLX)	<p>[Function] When this test command is executed, the current set duplex is displayed. Enter the code number corresponding to the desired duplex and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Duplex</th> <th>Display item</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Duplex NO</td> <td>OFF</td> </tr> <tr> <td>1</td> <td>Duplex YES</td> <td>ON</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	Duplex	Display item	0	Duplex NO	OFF	1	Duplex YES	ON														
Code number	Duplex	Display item																								
0	Duplex NO	OFF																								
1	Duplex YES	ON																								
	06	Destination setting (DESTINATION)	<p>[Function] When this test command is executed, the current set destination is displayed. Enter the code number corresponding to the desired destination and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Destination</th> <th>Display item</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Inch series</td> <td>INCH</td> </tr> <tr> <td>1</td> <td>EX Japan AB series</td> <td>AB</td> </tr> <tr> <td>2</td> <td>Japan AB series</td> <td>—</td> </tr> <tr> <td>3</td> <td>China (EX Japan AB series + China paper support)</td> <td>CHINA</td> </tr> </tbody> </table> <p>* For Japan AB series, there is no schedule for production.</p> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	Destination	Display item	0	Inch series	INCH	1	EX Japan AB series	AB	2	Japan AB series	—	3	China (EX Japan AB series + China paper support)	CHINA								
Code number	Destination	Display item																								
0	Inch series	INCH																								
1	EX Japan AB series	AB																								
2	Japan AB series	—																								
3	China (EX Japan AB series + China paper support)	CHINA																								
	07	Machine conditions check (CPM)	<p>[Function] When this test command is executed, the current machine setting is displayed.</p> <table border="1"> <thead> <tr> <th>CPM</th> <th>Coy quantity</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>10 CPM</td> <td>10</td> <td></td> </tr> <tr> <td>12 CPM</td> <td>12</td> <td></td> </tr> <tr> <td>13 CPM</td> <td>13</td> <td></td> </tr> <tr> <td>14 CPM</td> <td>14</td> <td></td> </tr> <tr> <td>15 CPM</td> <td>15</td> <td></td> </tr> <tr> <td>16 CPM</td> <td>16</td> <td></td> </tr> </tbody> </table> <p>[Operation] 1) The machine setting is displayed.</p> <table border="1"> <tbody> <tr> <td>26-07 CPM</td> </tr> <tr> <td>10 CPM</td> </tr> </tbody> </table>	CPM	Coy quantity	Remark	10 CPM	10		12 CPM	12		13 CPM	13		14 CPM	14		15 CPM	15		16 CPM	16		26-07 CPM	10 CPM
CPM	Coy quantity	Remark																								
10 CPM	10																									
12 CPM	12																									
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14 CPM	14																									
15 CPM	15																									
16 CPM	16																									
26-07 CPM																										
10 CPM																										
	20	Rear edge void setting (END EDGE)	<p>[Function] When this test command is executed, the current set rear edge void is displayed. Enter the code number corresponding to the desired rear edge void and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Setting</th> <th>Display item</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Rear edge void NO</td> <td>OFF</td> <td></td> </tr> <tr> <td>1</td> <td>Rear edge void YES</td> <td>ON</td> <td>Default</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	Setting	Display item	Remark	0	Rear edge void NO	OFF		1	Rear edge void YES	ON	Default											
Code number	Setting	Display item	Remark																							
0	Rear edge void NO	OFF																								
1	Rear edge void YES	ON	Default																							

Main code	Sub code	Contents	Details of function/operation																																	
26	30	CE mark support control ON/OFF (CE MARK)	<p>[Function] When this test command is executed, the current set CE mark support control is displayed. Enter the code number corresponding to the desired CE mark support control and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Setting</th> <th>Display item</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>CE mark support control OFF</td> <td>OFF</td> <td>Default (100V series)</td> </tr> <tr> <td>1</td> <td>CE mark support control ON</td> <td>ON</td> <td></td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	Setting	Display item	Remark	0	CE mark support control OFF	OFF	Default (100V series)	1	CE mark support control ON	ON																						
Code number	Setting	Display item	Remark																																	
0	CE mark support control OFF	OFF	Default (100V series)																																	
1	CE mark support control ON	ON																																		
	37	Cancel of stop at developer life over (DVLV LIFE END)	<p>[Function] When this test command is executed, the current setting is displayed. Enter the code number corresponding to the desired setting and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Setting</th> <th>Display item</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Stop at developer life over</td> <td>STOP</td> <td></td> </tr> <tr> <td>1</td> <td>Cancel of stop at developer life over</td> <td>NONSTOP</td> <td></td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	Setting	Display item	Remark	0	Stop at developer life over	STOP		1	Cancel of stop at developer life over	NONSTOP																						
Code number	Setting	Display item	Remark																																	
0	Stop at developer life over	STOP																																		
1	Cancel of stop at developer life over	NONSTOP																																		
	39	Memory capacity check (MEM.CHK)	<p>[Function] When the test command is executed, the currently installed SDRAM of the main unit is displayed.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Setting</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>8</td> <td>8 MBYTE</td> <td></td> </tr> </tbody> </table> <p>[Operation] 1) Memory capacity display</p> <table border="1"> <tbody> <tr> <td>26-39 MEM.CHK</td> </tr> <tr> <td>8 MBYTE</td> </tr> </tbody> </table>	Code number	Setting	Remark	8	8 MBYTE		26-39 MEM.CHK	8 MBYTE																									
Code number	Setting	Remark																																		
8	8 MBYTE																																			
26-39 MEM.CHK																																				
8 MBYTE																																				
	40	Polygon motor OFF time setting (Time required from completion of printing to turning OFF the motor) (LSU MOTOR OFF)	<p>[Function] When this test command is executed, the current setting is displayed. Enter the code number corresponding to the desired setting and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Setting</th> <th>Display item</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0sec</td> <td>0 SEC.</td> <td></td> </tr> <tr> <td>1</td> <td>30sec</td> <td>30 SEC.</td> <td>Default</td> </tr> <tr> <td>2</td> <td>60sec</td> <td>60 SEC.</td> <td></td> </tr> <tr> <td>3</td> <td>90sec</td> <td>90 SEC.</td> <td></td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	Setting	Display item	Remark	0	0sec	0 SEC.		1	30sec	30 SEC.	Default	2	60sec	60 SEC.		3	90sec	90 SEC.														
Code number	Setting	Display item	Remark																																	
0	0sec	0 SEC.																																		
1	30sec	30 SEC.	Default																																	
2	60sec	60 SEC.																																		
3	90sec	90 SEC.																																		
	42	Transfer ON timing control setting (TC ON TIMING)	<p>[Function] When this test command is executed, the currently set value of the transfer ON timing is displayed (initial display), and the set value is saved. (Setting range: 0 – 9, Default: 5)</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Setting</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0 msec</td> <td></td> </tr> <tr> <td>1</td> <td>-40 msec</td> <td></td> </tr> <tr> <td>2</td> <td>-30 msec</td> <td></td> </tr> <tr> <td>3</td> <td>-20 msec</td> <td></td> </tr> <tr> <td>4</td> <td>-10 msec</td> <td></td> </tr> <tr> <td>5</td> <td>0 msec</td> <td>Default</td> </tr> <tr> <td>6</td> <td>+10 msec</td> <td></td> </tr> <tr> <td>7</td> <td>+20 msec</td> <td></td> </tr> <tr> <td>8</td> <td>+30 msec</td> <td></td> </tr> <tr> <td>9</td> <td>+40 msec</td> <td></td> </tr> </tbody> </table> <p>* The default "5" of transfer ON timing is "330ms passed from PS release." * When set to "0," it is the same as setting to "5."</p> <p>[Operation] The operation is similar to test command 21-01.</p>	Code	Setting	Remark	0	0 msec		1	-40 msec		2	-30 msec		3	-20 msec		4	-10 msec		5	0 msec	Default	6	+10 msec		7	+20 msec		8	+30 msec		9	+40 msec	
Code	Setting	Remark																																		
0	0 msec																																			
1	-40 msec																																			
2	-30 msec																																			
3	-20 msec																																			
4	-10 msec																																			
5	0 msec	Default																																		
6	+10 msec																																			
7	+20 msec																																			
8	+30 msec																																			
9	+40 msec																																			

Main code	Sub code	Contents	Details of function/operation																														
41	06	OC cover float detection level (OC FLOAT LEVEL) (Disabled when set to OC)	<p>[Function] When this test command is executed, the current set value is displayed. When [ENTER/START] key is pressed, the mirror base unit moves to the SPF scan position to acquire the OC cover float detection level. When the mirror base unit returns to the home position, the acquired value is displayed. If the detection level is not acquired, ERR display is made. (Default: 0) Note that, this test command must be executed with the OC cover closed. * If the value is 0, float detection is not performed in normal jobs.</p> <p>[Operation] 1) Initial display <div style="border: 1px solid black; padding: 2px; display: inline-block;">41-06 OC FLOAT LEVEL 0</div> <Canceling - when C/CA key is pressed-> After canceling, the machine goes into the sub code entry standby mode. <div style="border: 1px solid black; padding: 2px; display: inline-block;">THE JOB IS BEING CANCELED.</div> 2) [ENTER/START] <div style="border: 1px solid black; padding: 2px; display: inline-block;">41-06 OC FLOAT LEVEL EXECUTING...</div> 3) When the level is acquired: <div style="border: 1px solid black; padding: 2px; display: inline-block;">41-06 OC FLOAT LEVEL **** OK</div> 3) When the level is not acquired: <div style="border: 1px solid black; padding: 2px; display: inline-block;">41-06 OC FLOAT LEVEL **** ERR</div></p>																														
43	01	Fusing temperature setting (Normal copy) (FU TEMP)	<p>[Function] When this test command is executed, the current set code number is displayed. Press [←/→/10KEY] key to change the setting and press [ENTER/START] key to save the setting into the EERPOM. The machine goes into the sub code entry standby mode.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>Set temperature (°C)</th> <th>Remark</th> </tr> </thead> <tbody> <tr><td>0</td><td>160</td><td></td></tr> <tr><td>1</td><td>165</td><td></td></tr> <tr><td>2</td><td>170</td><td></td></tr> <tr><td>3</td><td>175</td><td></td></tr> <tr><td>4</td><td>180</td><td></td></tr> <tr><td>5</td><td>185</td><td></td></tr> <tr><td>6</td><td>190</td><td>Default</td></tr> <tr><td>7</td><td>195</td><td></td></tr> <tr><td>8</td><td>200</td><td></td></tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code	Set temperature (°C)	Remark	0	160		1	165		2	170		3	175		4	180		5	185		6	190	Default	7	195		8	200	
Code	Set temperature (°C)	Remark																															
0	160																																
1	165																																
2	170																																
3	175																																
4	180																																
5	185																																
6	190	Default																															
7	195																																
8	200																																
	04	Fusing temperature setting in multi coy (FU TEMP MULTI)	<p>[Function] For 20th sheet or later in multi copy, the fusing temperature is automatically changed from the temperature set with test command 43-1 to the temperature set with this test command. When this test command is executed, the current set code number is displayed. Enter the code number and press [ENTER/START] key to change the setting.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>Set temperature (°C)</th> <th>Remark</th> </tr> </thead> <tbody> <tr><td>0</td><td>155</td><td></td></tr> <tr><td>1</td><td>160</td><td></td></tr> <tr><td>2</td><td>165</td><td></td></tr> <tr><td>3</td><td>170</td><td>Default</td></tr> <tr><td>4</td><td>175</td><td></td></tr> <tr><td>5</td><td>180</td><td></td></tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code	Set temperature (°C)	Remark	0	155		1	160		2	165		3	170	Default	4	175		5	180										
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1	160																																
2	165																																
3	170	Default																															
4	175																																
5	180																																

Main code	Sub code	Contents	Details of function/operation																																	
43	05	Fusing temperature setting in duplex copy (FU TEMP DPLX) (Enabled when Duplex setting is ON)	<p>[Function] In the case of duplex copy, the shift temperature set with this test command is applied to the fusing temperature. When this test command is executed, the current set code number is displayed. Enter the desired code number and press [ENTER/START] key to save the setting.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Shift temperature (°C)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>±0</td> <td>Default</td> </tr> <tr> <td>1</td> <td>-8</td> <td></td> </tr> <tr> <td>2</td> <td>-6</td> <td></td> </tr> <tr> <td>3</td> <td>-4</td> <td></td> </tr> <tr> <td>4</td> <td>-2</td> <td></td> </tr> <tr> <td>5</td> <td>±0</td> <td></td> </tr> <tr> <td>6</td> <td>+2</td> <td></td> </tr> <tr> <td>7</td> <td>+4</td> <td></td> </tr> <tr> <td>8</td> <td>+6</td> <td></td> </tr> <tr> <td>9</td> <td>+8</td> <td></td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code	Shift temperature (°C)	Remark	0	±0	Default	1	-8		2	-6		3	-4		4	-2		5	±0		6	+2		7	+4		8	+6		9	+8	
	Code	Shift temperature (°C)	Remark																																	
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8	+6																																			
9	+8																																			
14		Fusing start temperature setting (FU TEMP START)	<p>[Function] When this test command is started, the currently set code number is displayed. Press [←/→/10KEY] to switch the setting, and press [ENTER/START] key to save it to the EEPROM. The machine goes to the sub code entry standby mode.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Set temperature (°C)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>160</td> <td></td> </tr> <tr> <td>1</td> <td>165</td> <td></td> </tr> <tr> <td>2</td> <td>170</td> <td></td> </tr> <tr> <td>3</td> <td>175</td> <td></td> </tr> <tr> <td>4</td> <td>180</td> <td></td> </tr> <tr> <td>5</td> <td>185</td> <td></td> </tr> <tr> <td>6</td> <td>190</td> <td></td> </tr> <tr> <td>7</td> <td>195</td> <td>Default</td> </tr> <tr> <td>8</td> <td>200</td> <td></td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 21-01.</p>	Code	Set temperature (°C)	Remark	0	160		1	165		2	170		3	175		4	180		5	185		6	190		7	195	Default	8	200				
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Main code	Sub code	Contents	Details of function/operation																								
46	01	Copy density adjustment (300dpi) (EXP.LEVEL 300)	<p>[Function] Copy density is set for each mode. When this test command is executed, the current se value is displayed in 2 digits (Default: 50). Change the set value and press [START] key to make a copy under the set value. When the set value is increased, the copy becomes darker. When the set value is decreased, the copy becomes lighter. In this case, only Exp.3 copy is made. When, however, the setting is made to make darker copy, Exp.1 and Exp.5 copies also become darker. When made to lighter copy, Exp1. and Exp.5 copies become lighter, too. Press [←/→] key to switch the mode. The set value of the selected mode is displayed on the LCD. (Adjustment value: 1 – 99) The setting procedure of the magnification ratio is the same as that to copy operation.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>AE mode (300dpi)</td> <td>AE</td> <td>50</td> <td>COPY mode lamp</td> </tr> <tr> <td>TEXT mode (300dpi)</td> <td>TEXT</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>PHOTO mode</td> <td>PHOTO</td> <td>50</td> <td>SCAN mode lamp</td> </tr> <tr> <td>TS mode (TEXT)(300dpi)</td> <td>TSTXT</td> <td>50</td> <td>PRINT mode lamp SCAN mode lamp</td> </tr> <tr> <td>TS mode (AE)(300dpi)</td> <td>TSAE</td> <td>50</td> <td>COPY mode lamp SCAN mode lamp</td> </tr> </tbody> </table> <p>[Operation] 1) Initial display <div style="border: 1px solid black; padding: 2px; width: fit-content;">46-01 EXP.LEVEL 300 AE 100% 50(1-99)</div> 2) [←] Mode selection <div style="border: 1px solid black; padding: 2px; width: fit-content;">46-01 EXP.LEVEL 300 TSAE 100% 50(1-99)</div> 2) [→] Mode selection <div style="border: 1px solid black; padding: 2px; width: fit-content;">46-01 EXP.LEVEL 300 TEXT 100% 50(1-99)</div> 3) [10KEY] Value entry <div style="border: 1px solid black; padding: 2px; width: fit-content;">46-01 EXP.LEVEL 300 AE 100% 62(1-99)</div> 4) [START] Fixing and printing value (No change on the LCD) * Print is started in the set mode. <div style="border: 1px solid black; padding: 2px; width: fit-content;">46-01 EXP.LEVEL 300 AE 100% 62(1-99)</div> 4) To fix the set value without printing, press [Enter] key. <div style="border: 1px solid black; padding: 2px; width: fit-content;">46-01 EXP.LEVEL 300 AE 100% 62(1-99)</div> * To cancel manual feed paper empty MSG, press any key. * When performing the AE mode exposure adjustment, place the test chart on the document table so that the center area of 10cm is not covered.</p>	Mode	Display item	Default	LED	AE mode (300dpi)	AE	50	COPY mode lamp	TEXT mode (300dpi)	TEXT	50	PRINT mode lamp	PHOTO mode	PHOTO	50	SCAN mode lamp	TS mode (TEXT)(300dpi)	TSTXT	50	PRINT mode lamp SCAN mode lamp	TS mode (AE)(300dpi)	TSAE	50	COPY mode lamp SCAN mode lamp
Mode	Display item	Default	LED																								
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TS mode (AE)(300dpi)	TSAE	50	COPY mode lamp SCAN mode lamp																								
	02	Copy density adjustment (600dpi) (EXP.LEVEL 600)	<p>[Function] Copy density is set for each mode. When this test command is executed, the current se value is displayed in 2 digits (Default: 50). Change the set value and press [START] key to make a copy under the set value. When the set value is increased, the copy becomes darker. When the set value is decreased, the copy becomes lighter. In this case, only Exp.3 copy is made. When, however, the setting is made to make darker copy, Exp.1 and Exp.5 copies also become darker. When made to lighter copy, Exp1. and Exp.5 copies become lighter, too. Press [←/→] key to switch the mode. The set value of the selected mode is displayed on the LCD. (Adjustment value: 1 – 99)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>AE mode (600dpi)</td> <td>AE</td> <td>50</td> <td>COPY mode lamp</td> </tr> <tr> <td>TEXT mode (600dpi)</td> <td>TEXT</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>PHOTO mode</td> <td>PHOTO</td> <td>50</td> <td>SCAN mode lamp</td> </tr> <tr> <td>TS mode (TEXT) (600dpi)</td> <td>TSTXT</td> <td>50</td> <td>PRINT mode lamp SCAN mode lamp</td> </tr> <tr> <td>TS mode (AE) (600dpi)</td> <td>TSAE</td> <td>50</td> <td>COPY mode lamp SCAN mode lamp</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	AE mode (600dpi)	AE	50	COPY mode lamp	TEXT mode (600dpi)	TEXT	50	PRINT mode lamp	PHOTO mode	PHOTO	50	SCAN mode lamp	TS mode (TEXT) (600dpi)	TSTXT	50	PRINT mode lamp SCAN mode lamp	TS mode (AE) (600dpi)	TSAE	50	COPY mode lamp SCAN mode lamp
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Main code	Sub code	Contents	Details of function/operation																																								
46	12	Density adjustment in the FAX mode (Collective adjustment) (Executable only when the FAX is installed.)	<p>[Function] When [START] key is pressed, scan is executed with the entered exposure adjustment value and the data stored on the FAX side is rewritten into the entered value. All data of the exposure adjustment values are rewritten into the same value. For the density adjustment table data, refer to TC46-13 (density adjustment (normal text) in the FAX mode).</p> <p>[Operation] 1) Initial display <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>AUTO</td></tr> <tr><td></td><td></td><td>XX</td></tr> </table> ("XX" is the exposure adjustment value of normal text stored on the FAX side.) 2) Enter a 2-digit value as the exposure adjustment value. <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>AUTO</td></tr> <tr><td></td><td></td><td>YY</td></tr> </table> ("YY" is the entered exposure adjustment value.)</p> <p>3) Scan is started (self print), and the LED of [START] key is turned off. <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>AUTO</td></tr> <tr><td>SCAN</td><td></td><td>YY</td></tr> </table> 4) Print is started (self print). <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>AUTO</td></tr> <tr><td>PRINT</td><td></td><td>YY</td></tr> </table> After completion of printing, returns to "2)" display.</p>	ADJUST	EXP.	AUTO			XX	ADJUST	EXP.	AUTO			YY	ADJUST	EXP.	AUTO	SCAN		YY	ADJUST	EXP.	AUTO	PRINT		YY																
ADJUST	EXP.	AUTO																																									
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ADJUST	EXP.	AUTO																																									
PRINT		YY																																									
13		FAX mode density adjustment (normal text) (Executable only when the FAX is installed.)	<p>[Function] Scan is started with the exposure adjustment value entered with [START] key, and the stored data of the selected mode on the FAX side is rewritten into the input value. Density adjustment value data table</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Mode</th> <th>Photo</th> <th>Exposure adjustment value</th> </tr> </thead> <tbody> <tr> <td>STD (Normal text)</td> <td>off</td> <td></td> </tr> <tr> <td rowspan="2">Fine (Fine text)</td> <td>on</td> <td></td> </tr> <tr> <td>off</td> <td></td> </tr> <tr> <td rowspan="2">Sfine (Super fine)</td> <td>on</td> <td></td> </tr> <tr> <td>off</td> <td></td> </tr> </tbody> </table> <p>When initializing each data: 50</p> <p>[Operation] 1) Initial display <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>STD</td></tr> <tr><td></td><td></td><td>XX</td></tr> </table> ("XX" is the corresponding exposure adjustment value of normal text mode stored on the FAX side.) 2) Enter a 2-digit value as the exposure adjustment value with [10KEY]. <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>STD</td></tr> <tr><td></td><td></td><td>YY</td></tr> </table> ("YY" is the entered exposure adjustment value.)</p> <p>3) Scan is started (self print), and the LED of [START] key is turned off. <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>STD</td></tr> <tr><td>SCAN</td><td></td><td>YY</td></tr> </table> 4) Print is started (self print). <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>STD</td></tr> <tr><td>PRINT</td><td></td><td>YY</td></tr> </table> After completion of printing, returns to "2)" display.</p>	Mode	Photo	Exposure adjustment value	STD (Normal text)	off		Fine (Fine text)	on		off		Sfine (Super fine)	on		off		ADJUST	EXP.	STD			XX	ADJUST	EXP.	STD			YY	ADJUST	EXP.	STD	SCAN		YY	ADJUST	EXP.	STD	PRINT		YY
Mode	Photo	Exposure adjustment value																																									
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14		FAX mode density adjustment (Fine text) (Executable only when the FAX is installed.)	<p>[Function] When [START] key is pressed, scan is started with the entered exposure adjustment value and the data of the selected mode on the FAX side is changed to the entered value. For the density adjustment value table data, refer to TC46-13 (FAX mode density adjustment (normal text).)</p> <p>[Operation] 1) Initial display <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>FINE</td></tr> <tr><td></td><td></td><td>XX</td></tr> </table> ("XX" is the corresponding exposure adjustment value of the fine text mode stored on the FAX side.) 2) Enter a 2-digit value as the exposure adjustment value with [10KEY]. <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>FINE</td></tr> <tr><td></td><td></td><td>YY</td></tr> </table> ("YY" is the entered exposure adjustment value.)</p> <p>3) Scan start (self print) <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>FINE</td></tr> <tr><td>SCAN</td><td></td><td>YY</td></tr> </table> 4) Print start (self print) <table border="1" style="margin-left: 20px;"> <tr><td>ADJUST</td><td>EXP.</td><td>AUTO</td></tr> <tr><td>PRINT</td><td></td><td>YY</td></tr> </table> After completion of printing, returns to "2)" display.</p>	ADJUST	EXP.	FINE			XX	ADJUST	EXP.	FINE			YY	ADJUST	EXP.	FINE	SCAN		YY	ADJUST	EXP.	AUTO	PRINT		YY																
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46	15	FAX mode density adjustment (Super fine) (Executable only when the FAX is installed.)	<p>[Function] When [START] key is pressed, scan is started with the entered exposure adjustment value and the data of the selected mode on the FAX side is changed to the entered value. For the density adjustment value table data, refer to TC46-13 (FAX mode density adjustment (normal text).)</p> <p>[Operation]</p> <p>1) Initial display</p> <table border="1" style="margin-left: 20px;"> <tr> <td>ADJUST</td> <td>EXP.</td> <td>S-FINE</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>XX</td> </tr> </table> <p>("XX" is the corresponding exposure adjustment value of the super fine mode stored on the FAX side.)</p> <p>2) Enter a 2-digit value as the exposure adjustment value with [10KEY].</p> <table border="1" style="margin-left: 20px;"> <tr> <td>ADJUST</td> <td>EXP.</td> <td>S-FINE</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>YY</td> </tr> </table> <p>("YY" is the entered exposure adjustment value.)</p> <p>3) Scan start (self print)</p> <table border="1" style="margin-left: 20px;"> <tr> <td>ADJUST</td> <td>EXP.</td> <td>S-FINE</td> <td></td> </tr> <tr> <td>SCAN</td> <td></td> <td></td> <td>YY</td> </tr> </table> <p>4) Print start (self print)</p> <table border="1" style="margin-left: 20px;"> <tr> <td>ADJUST</td> <td>EXP.</td> <td>S-FINE</td> <td></td> </tr> <tr> <td>PRINT</td> <td></td> <td></td> <td>YY</td> </tr> </table> <p>After completion of printing, returns to "2" display.</p>	ADJUST	EXP.	S-FINE					XX	ADJUST	EXP.	S-FINE					YY	ADJUST	EXP.	S-FINE		SCAN			YY	ADJUST	EXP.	S-FINE		PRINT			YY
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18		Image contrast adjustment (300dpi) (GAMMA 300)	<p>[Function] Contrast is set for each mode. When this test command is executed, the current set value is displayed in 2 digits (Default: 50). Change the set value and press [START] key to make a copy under the set value. When the set value is increased, the contrast becomes higher. When the set value is decreased, the contrast becomes lower. In this case, only Exp.3 copy is made. When, however, the setting is made to make higher contrast, Exp.1 and Exp.5 copies also become in higher contrast. When made to a lower contrast, Exp1. and Exp.5 copies become lower contrast, too. Press [←/→] key to switch the mode. The set value of the selected mode is displayed on the LCD. (Adjustment value: 1 – 99)</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>AE mode (300dpi)</td> <td>AE</td> <td>50</td> <td>COPY mode lamp</td> </tr> <tr> <td>TEXT mode (300dpi)</td> <td>TEXT</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>PHOTO mode</td> <td>PHOTO</td> <td>50</td> <td>SCAN mode lamp</td> </tr> <tr> <td>TS mode (TEXT) (300dpi)</td> <td>TSTXT</td> <td>50</td> <td>PRINT mode lamp SCAN mode lamp</td> </tr> <tr> <td>TS mode (AE) (300dpi)</td> <td>TSAE</td> <td>50</td> <td>COPY mode lamp SCAN mode lamp</td> </tr> </tbody> </table> <p>* No density display on LCD.</p> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	AE mode (300dpi)	AE	50	COPY mode lamp	TEXT mode (300dpi)	TEXT	50	PRINT mode lamp	PHOTO mode	PHOTO	50	SCAN mode lamp	TS mode (TEXT) (300dpi)	TSTXT	50	PRINT mode lamp SCAN mode lamp	TS mode (AE) (300dpi)	TSAE	50	COPY mode lamp SCAN mode lamp								
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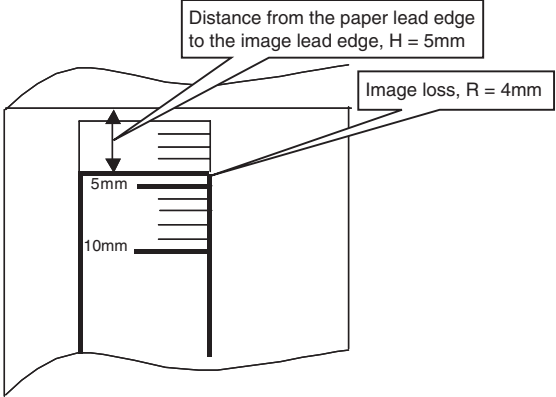
Main code	Sub code	Contents	Details of function/operation																													
46	19	Exposure mode setting (AE MODE)	<p>[Function] <γ table setting> When this test command is executed, the code number of the current set gamma table is displayed. (Default: Japan -1/Ex Japan -2) Enter the code number corresponding to the desired gamma table, and press [←/→] key to change the mode and write into the EEPROM.</p> <p><AE operation mode> When setting the γ table, press [→] key to change to the AE operation mode, and the current set code number of the AE operation mode is displayed. (Default: 0) Enter the code number corresponding to the desired AE operation mode and press [←/→] key to change the mode and write into the EEPROM.</p> <p><PHOTO image process setting> When [→] key is pressed in AE operation mode setting, the mode is changed to the PHOTO image process setting and the code number of the current set PHOTO image process setting is displayed. (Default: 0) Enter the code number corresponding to the desired PHOTO image process setting and press [←/→] key to change the mode and write into the EEPROM.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Code number</th> <th>Setting content</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td rowspan="2">γ</td> <td rowspan="2">GAMMA</td> <td>1</td> <td>Image quality priority mode</td> <td>Japan default</td> </tr> <tr> <td>2</td> <td>Toner consumption priority mode</td> <td>EX Japan default</td> </tr> <tr> <td rowspan="2">AE</td> <td rowspan="2">AE</td> <td>0</td> <td>Lead edge stop</td> <td>Default</td> </tr> <tr> <td>1</td> <td>Real time process</td> <td></td> </tr> <tr> <td rowspan="2">PHOTO</td> <td rowspan="2">PHOTO</td> <td>1</td> <td>Error diffusion process</td> <td>Default</td> </tr> <tr> <td>2</td> <td>Dither process</td> <td></td> </tr> </tbody> </table> <p>[Operation] 1) Initial display <γ table setting> <div style="border: 1px solid black; padding: 2px; display: inline-block;">46-19 AE MODE GAMMA 2 (1-2)</div></p> <p>2) [→] Mode selection <div style="border: 1px solid black; padding: 2px; display: inline-block;">46-19 AE MODE AE 0 (0-1)</div></p> <p>3) [10KEY] Value input <div style="border: 1px solid black; padding: 2px; display: inline-block;">46-19 AE MODE AE 1 (0-1)</div></p> <p>2) [←] Mode selection <div style="border: 1px solid black; padding: 2px; display: inline-block;">46-19 AE MODE PHOTO 1 (1-2)</div></p> <p>4) [ENTER/START] Save the set value. The machine goes to the sub code entry standby mode.</p>	Mode	Display item	Code number	Setting content	Remark	γ	GAMMA	1	Image quality priority mode	Japan default	2	Toner consumption priority mode	EX Japan default	AE	AE	0	Lead edge stop	Default	1	Real time process		PHOTO	PHOTO	1	Error diffusion process	Default	2	Dither process	
Mode	Display item	Code number	Setting content	Remark																												
γ	GAMMA	1	Image quality priority mode	Japan default																												
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PHOTO	PHOTO	1	Error diffusion process	Default																												
		2	Dither process																													
20		SPF exposure correction (EXP.LEVEL SPF) (Disabled when set to OC)	<p>[Function] Used to adjust the exposure correction amount in the SPF mode. The adjustment is made by adjusting Vref voltage variation for the OC mode. When this test command is executed, the current set value is displayed in 2 digits (Default: 50). Change the set value and press [START] key to save the setting and make a copy. When the set value is increased, copy becomes darker. When the set value is decreased, copy becomes lighter. (Adjustment range: 1 – 99)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>SPF</td> <td>SPF</td> <td>50</td> <td></td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	Remark	SPF	SPF	50																						
Mode	Display item	Default	Remark																													
SPF	SPF	50																														

Main code	Sub code	Contents	Details of function/operation																																			
46	29	Image contrast adjustment (600dpi) (GAMMA 600)	<p>[Function] Contrast is set for each mode. When this test command is executed, the current set value is displayed in 2 digits (Default: 50). Change the set value and press [START] key to make a copy under the set value. When the set value is increased, the contrast becomes higher. When the set value is decreased, the contrast becomes lower. In this case, only Exp.3 copy is made. When, however, the setting is made to make higher contrast, Exp.1 and Exp.5 copies also become in higher contrast. When made to a lower contrast, Exp.1. and Exp.5 copies become lower contrast, too. Press [←/→] key to switch the mode. The set value of the selected mode is displayed on the LCD. (Adjustment value: 1 – 99)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>AE mode (600dpi)</td> <td>AE</td> <td>50</td> <td>COPY mode lamp</td> </tr> <tr> <td>TEXT mode (600dpi)</td> <td>TEXT</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>PHOTO mode</td> <td>PHOTO</td> <td>50</td> <td>SCAN mode lamp</td> </tr> <tr> <td>TS mode (TEXT)(600dpi)</td> <td>TSTXT</td> <td>50</td> <td>PRINT mode lamp SCAN mode lamp</td> </tr> <tr> <td>TS mode (AE)(600dpi)</td> <td>TSAE</td> <td>50</td> <td>COPY mode lamp SCAN mode lamp</td> </tr> </tbody> </table> <p>* No density display on LCD.</p> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	AE mode (600dpi)	AE	50	COPY mode lamp	TEXT mode (600dpi)	TEXT	50	PRINT mode lamp	PHOTO mode	PHOTO	50	SCAN mode lamp	TS mode (TEXT)(600dpi)	TSTXT	50	PRINT mode lamp SCAN mode lamp	TS mode (AE)(600dpi)	TSAE	50	COPY mode lamp SCAN mode lamp											
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TS mode (AE)(600dpi)	TSAE	50	COPY mode lamp SCAN mode lamp																																			
30	AE limit adjustment (AE LIMIT)	<p>[Function] Used to set the limit value in AE and AE (toner save). Change the setting and press [ENTER/START] key to write the setting into the EEPROM. The machine goes into the sub code entry standby mode. By pressing [←/→] key, setting is changed. (Setting range: 0 – 31, Default: 0)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>Limit value for AE</td> <td>AE</td> <td></td> </tr> <tr> <td>Limit value for AE (toner save)</td> <td>TSAE</td> <td></td> </tr> </tbody> </table> <p><Remark> When test command 26-06 (Destination setting) or test command 46-19 Auto Exposure mode is changed, the setting of this test command is also changed to the default in connection.</p> <p>[Operation] The operation is similar to test command 46-19.</p>	Mode	Display item	Remark	Limit value for AE	AE		Limit value for AE (toner save)	TSAE																												
Mode	Display item	Remark																																				
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Limit value for AE (toner save)	TSAE																																					
31	Image sharpness adjustment (SHARPNESS)	<p>[Function] Used to adjust sharpening/blurring of image in each mode.</p> <table border="1"> <thead> <tr> <th>Image quality</th> <th>Setting No</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>Blurring</td> <td>0</td> <td></td> </tr> <tr> <td>Standard</td> <td>1</td> <td>Default</td> </tr> <tr> <td>Sharpening</td> <td>2</td> <td></td> </tr> </tbody> </table> <p>When this test command is executed, warm-up and shading are performed and the current set value is displayed. (Default: 1) Change the set value and press [START] key to make a copy under the set conditions. To change the mode, press [←/→] key. The code number of the selected mode is displayed on the LCD.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default setting</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>AE mode</td> <td>AE</td> <td>1</td> <td>COPY mode lamp</td> </tr> <tr> <td>TEXT mode</td> <td>TEXT</td> <td>1</td> <td>PRINT mode lamp</td> </tr> <tr> <td>PHOTO mode</td> <td>PHOTO</td> <td>1</td> <td>SCAN mode lamp</td> </tr> <tr> <td>TS mode (TEXT)</td> <td>TSTXT</td> <td>1</td> <td>PRINT mode lamp SCAN mode lamp</td> </tr> <tr> <td>TS mode (AE)</td> <td>TSAE</td> <td>1</td> <td>COPY mode lamp SCAN mode lamp</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 46-01.</p>	Image quality	Setting No	Remark	Blurring	0		Standard	1	Default	Sharpening	2		Mode	Display item	Default setting	LED	AE mode	AE	1	COPY mode lamp	TEXT mode	TEXT	1	PRINT mode lamp	PHOTO mode	PHOTO	1	SCAN mode lamp	TS mode (TEXT)	TSTXT	1	PRINT mode lamp SCAN mode lamp	TS mode (AE)	TSAE	1	COPY mode lamp SCAN mode lamp
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Main code	Sub code	Contents	Details of function/operation																																								
46	32	Copier color reproduction setting (COLOR REAPPEAR)	<p>[Function] Used to set color reproduction in each mode. Colors easy to be copied and colors difficult to be copied can be switched.</p> <table border="1"> <thead> <tr> <th>Set value</th> <th>Colors easy to be copied</th> <th>Colors difficult to be copied</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Purple, Blue, Red</td> <td>Yellow, Green, Water blue</td> </tr> <tr> <td>1</td> <td>Water blue, Green, Blue</td> <td>Purple, Red, Yellow</td> </tr> <tr> <td>2</td> <td>Yellow, Red, Green</td> <td>Blue, Water blue, Purple</td> </tr> </tbody> </table> <p>* This setting has virtually no effect on black-and-white documents.</p> <p>When this test command is executed, warm-up and shading are performed and the current set value is displayed. (Default: 0) Press [START] key to make a copy under the set conditions . At that time, color components are changed for used in copying. To change the mode, press [←/→] key. The code number of the selected mode is displayed on the LCD.</p> <table border="1"> <thead> <tr> <th>Specification component</th> <th>Setting No</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>Green</td> <td>0</td> <td>Default</td> </tr> <tr> <td>Red</td> <td>1</td> <td></td> </tr> <tr> <td>Blue</td> <td>2</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default setting</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>AE mode (including TS)</td> <td>AE</td> <td>0</td> <td>COPY mode lamp</td> </tr> <tr> <td>TEXT mode (including TS)</td> <td>TEXT</td> <td>0</td> <td>PRINT mode lamp</td> </tr> <tr> <td>PHOTO mode</td> <td>PHOTO</td> <td>0</td> <td>SCAN mode lamp</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 46-01.</p>	Set value	Colors easy to be copied	Colors difficult to be copied	0	Purple, Blue, Red	Yellow, Green, Water blue	1	Water blue, Green, Blue	Purple, Red, Yellow	2	Yellow, Red, Green	Blue, Water blue, Purple	Specification component	Setting No	Remark	Green	0	Default	Red	1		Blue	2		Mode	Display item	Default setting	LED	AE mode (including TS)	AE	0	COPY mode lamp	TEXT mode (including TS)	TEXT	0	PRINT mode lamp	PHOTO mode	PHOTO	0	SCAN mode lamp
Set value	Colors easy to be copied	Colors difficult to be copied																																									
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PHOTO mode	PHOTO	0	SCAN mode lamp																																								
39		FAX mode sharpness adjustment (Executable only when the FAX is installed.)	<p>[Function] When [START] key is pressed, scan is started with the entered sharpness adjustment value, and the data of the selected mode stored on the FAX side is changed to the entered value.</p> <p>Sharpness adjustment value data table</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Sharpness adjustment value</th> </tr> </thead> <tbody> <tr> <td>1: STD</td> <td></td> </tr> <tr> <td>2: FINE</td> <td></td> </tr> <tr> <td>3: S-FINE</td> <td></td> </tr> <tr> <td>4: FINE/PHOTO</td> <td></td> </tr> <tr> <td>5: S-FINE/PHOTO</td> <td></td> </tr> </tbody> </table> <p>When initializing each data: 1</p> <p>[Operation]</p> <p>1) Initial display</p> <table border="1"> <tr> <td>SHARPNESS SETTING</td> <td></td> </tr> <tr> <td>PRESS ←, →</td> <td></td> </tr> </table> <p>2) [←/→] or after 2sec</p> <p>Every time when [→] key is pressed, the second line is changed in the sequence of No. 1 → 2 → 3 → 4 → 5 → 1.</p> <p>When [←] key is pressed, the sequence is reversed.</p> <table border="1"> <tr> <td>SHARPNESS SET (1-5)</td> <td></td> </tr> <tr> <td>1: STD</td> <td></td> </tr> </table> <p>3) Select the arrow key 1-5, and the LED of [START] key is lighted.</p> <table border="1"> <tr> <td>SHARPNESS SETTING</td> <td></td> </tr> <tr> <td>ZZZZ (0-2)</td> <td>X</td> </tr> </table> <p>("ZZZZ" is the mode selected among STD, FINE, S-FINE, FINE/PHOTO, and S-FINE/PHOTO.) ("X" is the corresponding sharpness adjustment value of the selected mode stored on the FAX side.) * [CLEAR] key: Returns to "2" display.</p> <p>4) Enter a one-digit value (0-2) as the sharpness adjustment value with [10KEY].</p> <table border="1"> <tr> <td>SHARPNESS SETTING</td> <td></td> </tr> <tr> <td>ZZZZ (0-2)</td> <td>Y</td> </tr> </table> <p>("Y" is the entered sharpness adjustment value.) * [CLEAR] key: Returns to "2" display.</p> <p>5) Scan start (self print)</p> <table border="1"> <tr> <td>SHARPNESS SETTING</td> <td></td> </tr> <tr> <td>SCAN</td> <td>Y</td> </tr> </table> <p>6) Print start (self print)</p> <table border="1"> <tr> <td>SHARPNESS SETTING</td> <td></td> </tr> <tr> <td>PRINT</td> <td>Y</td> </tr> </table> <p>After completion of printing, returns to "4" display.</p>	Mode	Sharpness adjustment value	1: STD		2: FINE		3: S-FINE		4: FINE/PHOTO		5: S-FINE/PHOTO		SHARPNESS SETTING		PRESS ←, →		SHARPNESS SET (1-5)		1: STD		SHARPNESS SETTING		ZZZZ (0-2)	X	SHARPNESS SETTING		ZZZZ (0-2)	Y	SHARPNESS SETTING		SCAN	Y	SHARPNESS SETTING		PRINT	Y				
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PRINT	Y																																										

Main code	Sub code	Contents	Details of function/operation															
48	01	Main scan/sub scan direction magnification ratio (COPY MAG.)	<p>[Function] Used to adjust the magnification ratio in the main scan (front/rear) direction and sub scan direction. Enter the adjustment value with [10KEY]. Press [START] key to save the set value and make a copy. (When the adjustment value is increased by 1, the magnification ratio is increased by 0.1%.) The adjustment mode can be changed by pressing [←/→] key. (Adjustment range: 1 – 99, Default: 50)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default value</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Main scan direction magnification ratio</td> <td>F-R</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>OC mode sub scan direction magnification ratio</td> <td>SCAN</td> <td>50</td> <td>SCAN mode lamp</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 46-01.</p>				Mode	Display item	Default value	LED	Main scan direction magnification ratio	F-R	50	PRINT mode lamp	OC mode sub scan direction magnification ratio	SCAN	50	SCAN mode lamp
	Mode	Display item	Default value	LED														
Main scan direction magnification ratio	F-R	50	PRINT mode lamp															
OC mode sub scan direction magnification ratio	SCAN	50	SCAN mode lamp															
05	SPF/RSPF mode sub scan direction magnification ratio in copying (SPF/RSPF MAG.) (Disabled when set to OC)	<p>[Function] Used to display the current SPF/RSPF mode sub scan direction magnification ratio on the LCD. When [START] key is pressed, the entered data is acquired and saved into the EEPROM, and a copy is made. (When the set value is increased by 1, the magnification ratio is increased by 0.1%.) (Adjustment range: 1 – 99, Default: 50) When adjusting the RSPF, use [2-SIDED COPY] key to select single/duplex after entering the one page print mode, performing 2-page single copy. For printing, regardless of the density mode and the density level, Density mode = MANUAL Density level = 3</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Sub scan magnification ratio adjustment on the surface of SPF/RSPF document</td> <td>SIDE1</td> <td>50</td> <td>COPY mode lamp</td> </tr> <tr> <td>Sub scan magnification ratio adjustment on the surface of RSPF document *1</td> <td>SIDE2</td> <td>50</td> <td>PRINT mode lamp</td> </tr> </tbody> </table> <p>* When there is no document in SPF, copy is inhibited. *1: Only when RSPF is installed. If installed, skipped.</p> <p>[Operation] The operation is similar to test command 46-01.</p>				Mode	Display item	Default	LED	Sub scan magnification ratio adjustment on the surface of SPF/RSPF document	SIDE1	50	COPY mode lamp	Sub scan magnification ratio adjustment on the surface of RSPF document *1	SIDE2	50	PRINT mode lamp	
Mode	Display item	Default	LED															
Sub scan magnification ratio adjustment on the surface of SPF/RSPF document	SIDE1	50	COPY mode lamp															
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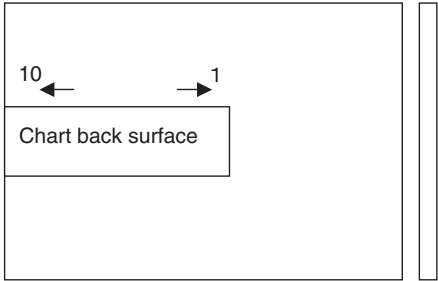
Main code	Sub code	Contents	Details of function/operation																																																																					
49	01	Download mode (DOWNLOAD MODE)	<p>[Function] When this test command is executed, "DLOWLOAD MODE" is displayed on the LCD and the machine is ready to download firmware from PC to Flash ROM. Use the maintenance.exe program on the PC to download the firmware to the Flash ROM. When downloading the firmware to the Flash ROM, the machine displays the following messages: After completing download, turn the machine's power switch OFF and then ON again to reset.</p> <table border="1"> <thead> <tr> <th>Status</th> <th>Display item</th> </tr> </thead> <tbody> <tr><td>Download data receiving</td><td>RECEIVING</td></tr> <tr><td>Loader function transfer</td><td>LOADER COPYING</td></tr> <tr><td>Date delete start</td><td>FLASH ERASE</td></tr> <tr><td>Data write (Boot section)</td><td>BOOT WRITING</td></tr> <tr><td>Data write (Program section)</td><td>PROGRAM WRITING</td></tr> <tr><td>Data write (EEPROM)</td><td>E2PROM WRITING</td></tr> <tr><td>Data write (LCD)</td><td>LCD DATE WRITING</td></tr> <tr><td>During SUM CHECK</td><td>FLASH ROM SUM CHECK</td></tr> <tr><td>During BOOT SUM CHECK</td><td>BOOT SUM CHECK</td></tr> <tr><td>During EEPROM SUM CHECK</td><td>EEPROM SUM CHECK</td></tr> <tr><td>Download complete</td><td>DOWNLOAD COMPLETE!</td></tr> </tbody> </table> <p>In case of an error during download, the following message is displayed on the machine.</p> <table border="1"> <thead> <tr> <th>Error status</th> <th>Display item</th> </tr> </thead> <tbody> <tr><td>PC data receiving</td><td>E-01 PC TRANS</td></tr> <tr><td>Loader function transfer</td><td>E-02 LOADER COPY</td></tr> <tr><td>FLASH ROM delete</td><td>E-03 FLASH ERASE</td></tr> <tr><td>Boot section FLASH ROM write</td><td>E-04 BOOT WRITE</td></tr> <tr><td>Program section FLASH ROM write</td><td>E-05 PROGRAM WRITE</td></tr> <tr><td>Loader section SUM CHECK</td><td>E-06 LOADER SUM</td></tr> <tr><td>Boot section SUM CHECK</td><td>E-07 BOOT SUM</td></tr> <tr><td>Program section SUM CHECK</td><td>E-08 PROGRAM SUM</td></tr> <tr><td>E2PROM SUM CHECK</td><td>E-09 E2PROM SUM</td></tr> <tr><td>E2PROM write</td><td>E-10 E2PROM WRITE</td></tr> <tr><td>E2PROM read Verify</td><td>E-11 E2PROM READ</td></tr> <tr><td>E2PROM collating Verify</td><td>E-12 E2PROM COLLATE</td></tr> <tr><td>Boot section lens check</td><td>E-13 BOOT LENGTH</td></tr> <tr><td>Program section lens check</td><td>E-14 PROGRAM LENGTH</td></tr> <tr><td>E2PROM lens check</td><td>E-15 E2PROM LENGTH</td></tr> <tr><td>Total data size check</td><td>E-16 DATE SIZE</td></tr> <tr><td>IMC communication error</td><td>E-17 IMC TRANS</td></tr> <tr><td>IMC FRASH ROM write</td><td>E-18 IMC FLASH WRITE</td></tr> <tr><td>LCD section lens check</td><td>E-19 LCD DATE LENGTH</td></tr> <tr><td>LCD section FLASH ROM write</td><td>E-20 LCD DATE WRITE</td></tr> <tr><td>LCD section SUM CHECK</td><td>E-21 LCD DATE SUM</td></tr> </tbody> </table> <p>To enter the download mode, there is a method to use key operations as well as to use a test command. With the power OFF, press and hold [CA] + [←], turn on the power.</p> <p>[Operation] 1) Initial display</p> <table border="1"> <tr> <td>DOWNLOAD MODE</td> </tr> </table>	Status	Display item	Download data receiving	RECEIVING	Loader function transfer	LOADER COPYING	Date delete start	FLASH ERASE	Data write (Boot section)	BOOT WRITING	Data write (Program section)	PROGRAM WRITING	Data write (EEPROM)	E2PROM WRITING	Data write (LCD)	LCD DATE WRITING	During SUM CHECK	FLASH ROM SUM CHECK	During BOOT SUM CHECK	BOOT SUM CHECK	During EEPROM SUM CHECK	EEPROM SUM CHECK	Download complete	DOWNLOAD COMPLETE!	Error status	Display item	PC data receiving	E-01 PC TRANS	Loader function transfer	E-02 LOADER COPY	FLASH ROM delete	E-03 FLASH ERASE	Boot section FLASH ROM write	E-04 BOOT WRITE	Program section FLASH ROM write	E-05 PROGRAM WRITE	Loader section SUM CHECK	E-06 LOADER SUM	Boot section SUM CHECK	E-07 BOOT SUM	Program section SUM CHECK	E-08 PROGRAM SUM	E2PROM SUM CHECK	E-09 E2PROM SUM	E2PROM write	E-10 E2PROM WRITE	E2PROM read Verify	E-11 E2PROM READ	E2PROM collating Verify	E-12 E2PROM COLLATE	Boot section lens check	E-13 BOOT LENGTH	Program section lens check	E-14 PROGRAM LENGTH	E2PROM lens check	E-15 E2PROM LENGTH	Total data size check	E-16 DATE SIZE	IMC communication error	E-17 IMC TRANS	IMC FRASH ROM write	E-18 IMC FLASH WRITE	LCD section lens check	E-19 LCD DATE LENGTH	LCD section FLASH ROM write	E-20 LCD DATE WRITE	LCD section SUM CHECK	E-21 LCD DATE SUM	DOWNLOAD MODE
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Main code	Sub code	Contents	Details of function/operation																												
50	01	Lead edge image position (LEAD EDGE)	<p>[Function] Used to adjust the copy image position and the lead edge void amount on copy paper. The adjustment is made by adjusting the image scan start position at 100% and the print start position (resist roller ON timing). When this test command is executed, the current set value is displayed in 2 digits. (Center value: 50)</p> <p>When [←/→] key is pressed, the setting mode and the display are changed.</p> <p>Enter the adjustment value and press [START] key to save the set value and make a copy.</p> <p>When the adjustment is made by the main cassette paper feed, the adjustment values of all the paper feed ports become the same. (When the set value is increased by 1, shift is made by 0.1mm.)</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Print start position (Main cassette paper feed)</td> <td>TRAY1</td> <td>50</td> <td>COPY mode lamp Main cassette lamp</td> </tr> <tr> <td>(*) Print start position (2nd cassette paper feed)</td> <td>TRAY2</td> <td>50</td> <td>COPY mode lamp 2nd cassette lamp</td> </tr> <tr> <td>Print start position (Manual paper feed)</td> <td>MFT</td> <td>50</td> <td>COPY mode lamp Manual feed lamp</td> </tr> <tr> <td>Image lead edge void amount</td> <td>DEN-A</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>Image scan start position</td> <td>RRC-A</td> <td>50</td> <td>SCAN mode lamp</td> </tr> <tr> <td>Image rear edge void amount</td> <td>DEN-B</td> <td>50</td> <td>COPY mode lamp PRINT mode lamp SCAN mode lamp</td> </tr> </tbody> </table> <p>(*): Support for the installation models. For non-installation models, skip.</p> <p>[Adjustment procedure]</p> <ol style="list-style-type: none"> 1) Set the print start position (A: COPY mode lamp ON), the lead edge void amount (B: PRINT mode lamp ON), the scan start position (C: SCAN mode lamp) to zero, and make a copy of the scale at 100%. 2) Measure the image loss (Rmm) of the scale. Set $C = 10 \times R$ (mm). (Example: Set to 40.) When the value of C is increased by 10, the image loss is decreased by 1mm. (Default: 50) 3) Measure the distance (Hmm) from the paper lead edge to the image print start position. Set $A = 10 \times H$ (mm). (Example: Set to 50.) When the value of A is increased by 10, the image lead edge is moved to the paper lead edge by 1mm. (Default: 50). 4) Set the lead edge void amount to $B = 50$ (2.5mm). (Default: 50) When the value of B is increased by 10, the void is extended by about 0.1mm. (For 25 or less, however, the void amount is regarded as 0.) <p>* The SFP adjustment is made by adjusting the SPF image scan start position after OC adjustment. * When paper is discharged, the shifter is operated.</p> <p>(Example)</p>  <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	Print start position (Main cassette paper feed)	TRAY1	50	COPY mode lamp Main cassette lamp	(*) Print start position (2nd cassette paper feed)	TRAY2	50	COPY mode lamp 2nd cassette lamp	Print start position (Manual paper feed)	MFT	50	COPY mode lamp Manual feed lamp	Image lead edge void amount	DEN-A	50	PRINT mode lamp	Image scan start position	RRC-A	50	SCAN mode lamp	Image rear edge void amount	DEN-B	50	COPY mode lamp PRINT mode lamp SCAN mode lamp
Mode	Display item	Default	LED																												
Print start position (Main cassette paper feed)	TRAY1	50	COPY mode lamp Main cassette lamp																												
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Print start position (Manual paper feed)	MFT	50	COPY mode lamp Manual feed lamp																												
Image lead edge void amount	DEN-A	50	PRINT mode lamp																												
Image scan start position	RRC-A	50	SCAN mode lamp																												
Image rear edge void amount	DEN-B	50	COPY mode lamp PRINT mode lamp SCAN mode lamp																												

Main code	Sub code	Contents	Details of function/operation																				
50	06	Copy lead edge position adjustment (SPF/RSPF) (SPF/RSPF EDGE) (Disabled when set to OC)	<p>[Function] Used to adjust the SPF copy lead edge. When the adjustment value of the document scan position adjustment is increased by 1, the scan start timing is advanced by 0.1mm. The print result is shifted to the opposite direction of the scan start position. The adjustment mode can be changed by pressing [←/→] key. (Adjustment range: 1 – 99, Default:50) When scanning a back surface of document, the mode must be changed to operate the RSPF by pressing [2-SIDED COPY] key.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Front surface document scan position adjustment</td> <td>SIDE1</td> <td>50</td> <td>COPY mode lamp</td> </tr> <tr> <td>(*) Back surface document scan position adjustment</td> <td>SIDE2</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>Rear edge void adjustment (SPF)</td> <td>END</td> <td>50</td> <td>SCAN mode lamp</td> </tr> </tbody> </table> <p>(*) : Support for the installation models. For non-installation models, skip. * When there is no document in the SPF, copy is inhibited. * When paper is discharged, the shifter is operated.</p> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	Front surface document scan position adjustment	SIDE1	50	COPY mode lamp	(*) Back surface document scan position adjustment	SIDE2	50	PRINT mode lamp	Rear edge void adjustment (SPF)	END	50	SCAN mode lamp				
Mode	Display item	Default	LED																				
Front surface document scan position adjustment	SIDE1	50	COPY mode lamp																				
(*) Back surface document scan position adjustment	SIDE2	50	PRINT mode lamp																				
Rear edge void adjustment (SPF)	END	50	SCAN mode lamp																				
10		Print center offset adjustment (PRT.OFF-CENTER)	<p>[Function] Used to adjust the center offset position of copy images on copy paper and that in scanning document. When this test command is executed, the current set value is displayed. Enter the adjustment value and press [START] key to save the setting and make a copy. (When the set value is changed by 1, the center is shifted by 0.1mm.) When the adjustment value is increased, the center is shifted to right. When decreased, the center is shifted to left. The modes can be selected by pressing [←/→] key. When the set value is changed largely, the area outside the shading area may be scanned to cause black streaks on the edges. When the RSPF is used, select the mode for use of the RSPF by [2-SIDED COPY] key.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Print center offset (Main cassette paper feed)</td> <td>TRAY1</td> <td>50</td> <td>COPY mode lamp Main cassette lamp</td> </tr> <tr> <td>(*) Print center offset (2nd cassette paper feed)</td> <td>TRAY2</td> <td>50</td> <td>COPY mode lamp 2nd cassette lamp</td> </tr> <tr> <td>Print center offset (Manual paper feed)</td> <td>MFT</td> <td>50</td> <td>COPY mode lamp Manual feed lamp</td> </tr> <tr> <td>(*) 2nd print center offset (Main cassette paper feed)</td> <td>SIDE2</td> <td>50</td> <td>PRINT mode lamp Main cassette lamp</td> </tr> </tbody> </table> <p>(*) : Support for the installation models. For non-installation models, skip. * In the 2nd print center offset adjustment, print is made forcibly as 1to2/Short Edge from OC regardless of duplex setting. * When paper is discharged, the shifter is operated.</p> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	Print center offset (Main cassette paper feed)	TRAY1	50	COPY mode lamp Main cassette lamp	(*) Print center offset (2nd cassette paper feed)	TRAY2	50	COPY mode lamp 2nd cassette lamp	Print center offset (Manual paper feed)	MFT	50	COPY mode lamp Manual feed lamp	(*) 2nd print center offset (Main cassette paper feed)	SIDE2	50	PRINT mode lamp Main cassette lamp
Mode	Display item	Default	LED																				
Print center offset (Main cassette paper feed)	TRAY1	50	COPY mode lamp Main cassette lamp																				
(*) Print center offset (2nd cassette paper feed)	TRAY2	50	COPY mode lamp 2nd cassette lamp																				
Print center offset (Manual paper feed)	MFT	50	COPY mode lamp Manual feed lamp																				
(*) 2nd print center offset (Main cassette paper feed)	SIDE2	50	PRINT mode lamp Main cassette lamp																				
12		Document feed off-center adjustment (ORG.OFF-CENTER)	<p>[Function] Used to adjust document scan off-center adjustment. The adjustment modes can be selected by pressing [←/→] key. (Adjustment range: 1 – 99, Default:50) When the adjustment value is increased, the print result is shifted to left.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Platen document scan</td> <td>OC</td> <td>50</td> <td>COPY mode lamp</td> </tr> <tr> <td>(*) SPF document front scan</td> <td>SPF</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>(*) RSPF document back scan</td> <td>RSPF</td> <td>50</td> <td>SCAN mode lamp</td> </tr> </tbody> </table> <p>(*) : Support for the installation models. For non-installation models, skip. * When paper is discharged, the shifter is operated.</p> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	Platen document scan	OC	50	COPY mode lamp	(*) SPF document front scan	SPF	50	PRINT mode lamp	(*) RSPF document back scan	RSPF	50	SCAN mode lamp				
Mode	Display item	Default	LED																				
Platen document scan	OC	50	COPY mode lamp																				
(*) SPF document front scan	SPF	50	PRINT mode lamp																				
(*) RSPF document back scan	RSPF	50	SCAN mode lamp																				

Main code	Sub code	Contents	Details of function/operation												
50	18	Memory reverse position adjustment in duplex copy (DPLX REVERSE) (Enabled when Duplex setting is ON with OC or SPF set)	<p>[Function] When this test command is executed, the current set correction value is displayed. Enter the correction value and press [START] key to save the entered correction value. (Correction value range; 1 – 99, Default: 50) For S-D mode front surface print and print of even paged in D-S mode, reverse memory copy operation is performed from the rear edge of documents. When, therefore, the print position adjustment of output images is required, adjust as follows: In the reverse memory coping, when the document scan is made in the arrow direction, the output image is printed from the rear edge of scan image, When, therefore, the print lead edge is shifted, set the reference chart so that the reference position is on the rear edge, and use this test command to adjust the set value so that the print lead edge is matched. Since printing is made from the image data most lately stored in memory to the lead edge data from the print start position, the image lead edge adjustment is made by changing the end data position stored in memory by the set value of this test command. Since it is performed by changing the scan end position, the image position adjustment is made by changing the scan end position and the end data stored in memory.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>OC memory reverse output position</td> <td>OC</td> <td>50</td> <td>COPY mode lamp</td> </tr> <tr> <td>SPF memory reverse output position *1</td> <td>SPF</td> <td>50</td> <td>PRINT mode lamp</td> </tr> </tbody> </table> <p>*1: Only when SPF/RSPF is installed. If installed, skipped.</p> <p>* The initial value of duplex setting is "1to2/Long Edge" for the duplex model, or "2to1" for the simplex model. * When paper is discharged, the shifter is operated.</p> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	OC memory reverse output position	OC	50	COPY mode lamp	SPF memory reverse output position *1	SPF	50	PRINT mode lamp
Mode	Display item	Default	LED												
OC memory reverse output position	OC	50	COPY mode lamp												
SPF memory reverse output position *1	SPF	50	PRINT mode lamp												
19		Duplex copy rear edge void adjustment (DPLX END EDGE) (Enabled when Duplex setting is ON)	<p>[Function] Used to adjust the rear edge void amount in duplex copy. When this test command is executed, the current set value is displayed in 2 digits. (Center value: 50.) The adjustment modes can be selected by pressing [←/→] key. (Adjustment range; 1 – 99) Enter the adjustment value and press [START] key to save the set value and make a copy. (The paper information is cleared for every copy.) When the set value is increased by 1, the void amount is increased by about 0.1mm.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Paper rear edge void amount</td> <td>DEN-B</td> <td>50</td> <td>PRINT mode lamp</td> </tr> <tr> <td>Print start position (Duplex back surface)</td> <td>RRC-D</td> <td>50</td> <td>SCAN mode lamp</td> </tr> </tbody> </table> <p>* The initial value for duplex setting is "1to2/Short Edge" for the OC/SPF setting, or "2to2" for the RSPF setting. * When paper is discharged, the shifter is operated.</p> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	Paper rear edge void amount	DEN-B	50	PRINT mode lamp	Print start position (Duplex back surface)	RRC-D	50	SCAN mode lamp
Mode	Display item	Default	LED												
Paper rear edge void amount	DEN-B	50	PRINT mode lamp												
Print start position (Duplex back surface)	RRC-D	50	SCAN mode lamp												

Main code	Sub code	Contents	Details of function/operation																												
51	02	Resist amount adjustment (RESIST ADJ.)	<p>[Function] Used to adjust the contact pressure of the main unit resist roller and the RSPF resist roller onto paper. When this test command is executed, the current set value is displayed. The adjustment modes can be selected by pressing [←/→] key. Enter the adjustment value with [10KEY] and press [START] key to save the set value and make a copy.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>Main cassette paper fed</td> <td>TRAY1</td> <td>50</td> <td>COPY mode lamp Main cassette lamp</td> </tr> <tr> <td>(*) 2nd cassette paper feed</td> <td>TRAY2</td> <td>50</td> <td>COPY mode lamp 2nd cassette lamp</td> </tr> <tr> <td>Manual paper feed</td> <td>MFT</td> <td>50</td> <td>COPY mode lamp Manual feed lamp</td> </tr> <tr> <td>(*) RSPF document paper feed (Front surface)</td> <td>SIDE1</td> <td>50</td> <td>COPY mode lamp PRINT mode lamp SCAN mode lamp</td> </tr> <tr> <td>(*) RSPF document paper feed (Back surface)</td> <td>SIDE2</td> <td>50</td> <td>COPY mode lamp PRINT mode lamp</td> </tr> <tr> <td>(*) Duplex back surface</td> <td>DUP-2</td> <td>50</td> <td>PRINT mode lamp SCAN mode lamp</td> </tr> </tbody> </table> <p>(*): Support for the installation models. For non-installation models, skip.</p> <p>[Operation] The operation is similar to test command 46-01.</p>	Mode	Display item	Default	LED	Main cassette paper fed	TRAY1	50	COPY mode lamp Main cassette lamp	(*) 2nd cassette paper feed	TRAY2	50	COPY mode lamp 2nd cassette lamp	Manual paper feed	MFT	50	COPY mode lamp Manual feed lamp	(*) RSPF document paper feed (Front surface)	SIDE1	50	COPY mode lamp PRINT mode lamp SCAN mode lamp	(*) RSPF document paper feed (Back surface)	SIDE2	50	COPY mode lamp PRINT mode lamp	(*) Duplex back surface	DUP-2	50	PRINT mode lamp SCAN mode lamp
Mode	Display item	Default	LED																												
Main cassette paper fed	TRAY1	50	COPY mode lamp Main cassette lamp																												
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Manual paper feed	MFT	50	COPY mode lamp Manual feed lamp																												
(*) RSPF document paper feed (Front surface)	SIDE1	50	COPY mode lamp PRINT mode lamp SCAN mode lamp																												
(*) RSPF document paper feed (Back surface)	SIDE2	50	COPY mode lamp PRINT mode lamp																												
(*) Duplex back surface	DUP-2	50	PRINT mode lamp SCAN mode lamp																												
53	08	SPF scan position automatic adjustment (SPF AUTO) (Disabled when set to OC)	<p>[Function] Place a black chart so that it covers the SPF scan glass and the OC glass together, and close the OC cover. When this test command is executed, the current adjustment value is displayed as the initial display. * Default is 1. Adjustment range is 1 – 99. Adjustment unit 1 = about 0.127mm * If the values are kept as the default values, SPF scan is not performed properly. The front area of the proper scan position may be scanned. In case of AUTO, press [START] key, and the mirror unit scans from the home position to the SPF scan position with the adjustment value displayed. The SPF glass cover edge position is calculated from the difference between the SPFG glass cover edge and the OC side document glass CCD output level. If the adjustment is normal, the adjusted value is displayed. If abnormal, the error LED lights up with the current set value displayed. During the error LED is lighted, when [START] key is pressed again, execution is performed again.</p> <table border="1"> <thead> <tr> <th>Mode</th> <th>Display item</th> <th>Default</th> <th>LED</th> </tr> </thead> <tbody> <tr> <td>SPF scan position auto adjustment</td> <td>AUTO</td> <td>1</td> <td>COPY mode lamp</td> </tr> <tr> <td>SPF scan position manual adjustment</td> <td>MANU</td> <td>1</td> <td>PRINT mode lamp</td> </tr> </tbody> </table> <p>[Operation] The operation is similar to test command 46-01. (In MANUAL) OK/ERR display in AUTO</p> <p><When OK></p> <table border="1"> <tr> <td>53-08 SPF AUTO AUTO 100% ** OK</td> </tr> </table> <p><When ERR></p> <table border="1"> <tr> <td>53-08 SPF AUTO AUTO 100% ** ERR</td> </tr> </table>	Mode	Display item	Default	LED	SPF scan position auto adjustment	AUTO	1	COPY mode lamp	SPF scan position manual adjustment	MANU	1	PRINT mode lamp	53-08 SPF AUTO AUTO 100% ** OK	53-08 SPF AUTO AUTO 100% ** ERR														
Mode	Display item	Default	LED																												
SPF scan position auto adjustment	AUTO	1	COPY mode lamp																												
SPF scan position manual adjustment	MANU	1	PRINT mode lamp																												
53-08 SPF AUTO AUTO 100% ** OK																															
53-08 SPF AUTO AUTO 100% ** ERR																															
61	03	HSYNC output check (LSU CHK)	<p>[Function] When [ENTER/START] key is pressed, HSYNC is performed and the polygon motor is rotated for 30sec. At that time, the COPY mode lamp is lighted for 100msec every time when HSYNC is detected.</p> <p>[Operation] 1) Initial display</p> <table border="1"> <tr> <td>61-03 LSU CHK EXECUTING . . .</td> </tr> </table>	61-03 LSU CHK EXECUTING . . .																											
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Main code	Sub code	Contents	Details of function/operation
63	01	Shading check (SHADING CHK)	<p>[Function] Used to display the detection level of white plate for shading. When [ENTER/START] key is pressed, the mirror base unit moves to the white plate for shading and the copy lamp is lighted. When the light quantity is stabilized, revision is made for every second, and the level of one pixel at the center of CCD which is not corrected is detected and the value is displayed in decimal values on the LCD. (3 digits)</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 63-01 SHADING CHK EXECUTING... 000 </div>
	02	Black level automatic correction (BLACK LEVEL)	<p>[Function] Used to acquire the black level target value used for the black level adjustment of white balance. When this test command is executed, the current correction value is displayed in 3 digits of 12bit hexadecimal number. Place the gray gradation chart (UKOG-0162FCZZ) used as the correction document so that the density 10 (black side) comes on the left side and that the chart is upside down at the center of the plate left center.</p> <div style="text-align: center; margin: 10px 0;">  <p>The diagram shows a rectangular area representing a chart. Inside, there is a smaller rectangle labeled 'Chart back surface'. Above this rectangle, there are two arrows pointing towards each other. The left arrow is labeled '10' and the right arrow is labeled '1', indicating the density levels on either side of the chart.</p> </div> <p>When [ENTER/START] key is pressed, the mirror base unit scans the chart and calculates the correction value. After completion of correction, the corrected value is displayed on the LCD.</p> <p>* Default: 0 * If the value is set to the default, operation is made with 0x60.</p> <p>[Operation] 1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 63-02 BLACK LEVEL 000 </div> <p>2) [ENTER/START] Correction start</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;"> 63-02 BLACK LEVEL EXECUTING... </div> <p style="margin-left: 200px;"><During canceling - When C/CA is pressed-> After canceling, the machine goes into the sub code entry standby mode.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 200px;"> THE JOB IS BEING CANCELED. </div> <p>3) After execution</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 200px;"> 63-02 BLACK LEVEL *** OK </div> <p>3) In case of an error</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 200px;"> 63-02 BLACK LEVEL *** ERR </div>

Main code	Sub code	Contents	Details of function/operation															
64	01	Self print (1by2 mode) (SELF PRT.)	<p>[Function] The status of the optical section is ignored and printing of one page is made. Also when the print command is received from the host, printing is made.</p> <p>When this test command is executed, warm-up is performed and the ready lamp is lighted. (Since, however, the scanner is disabled, initializing is not made.)</p> <p>Enter the code number and press [ENTER/START] key to start paper feed from the selected cassette and print in the selected pattern.</p> <table border="1"> <thead> <tr> <th>Code number</th> <th>Pattern</th> <th>Display item</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1by2</td> <td>1 BY 2</td> </tr> <tr> <td>1</td> <td>Grid pattern</td> <td>CHECK</td> </tr> <tr> <td>2</td> <td>White paper</td> <td>WHITE</td> </tr> <tr> <td>3</td> <td>Black background</td> <td>BLACK</td> </tr> </tbody> </table> <p>* For 4 – 99, flip.</p> <p>[Operation] The operation is similar to test command 21-01.</p>	Code number	Pattern	Display item	0	1by2	1 BY 2	1	Grid pattern	CHECK	2	White paper	WHITE	3	Black background	BLACK
Code number	Pattern	Display item																
0	1by2	1 BY 2																
1	Grid pattern	CHECK																
2	White paper	WHITE																
3	Black background	BLACK																
66	01	FAX soft SW setting (Executable only when the FAX is installed.)	<p>[Function] Use to check the FAX soft SW setting. Every time when the key is pressed, the bit on the first line is switched 0 and 1.</p> <p>[Operation]</p> <p>1) Initial display</p> <table border="1"> <tr> <td>ENTER FAX SOFT SW. # (3 DIGITS) SW.</td> </tr> </table> <p>* [CLEAR] key: FAX control is terminated.</p> <p>2) Enter a 3-digit value of soft SW No. (To enter the fourth digit, shift to the left.), and the press [ENTER] key.</p> <table border="1"> <tr> <td>No. ### xxxxxxxx CHANGE? 1: YES 2: NO</td> </tr> </table> <p>"xxxxxxx" is the set content. * Select 2: Returns to the soft SW No. entry display.</p> <p>3) Select 1</p> <table border="1"> <tr> <td>No. ### xxxxxxxx USE # KEY 12345678</td> </tr> </table> <p>4) Change with 1-8 of [10KEY] and the press [ENTER] key.</p> <table border="1"> <tr> <td>No. ### xxxxxxxx STORED? 1: YES 2: NO</td> </tr> </table> <p>"xxxxxxx" is the set content. * Select 2: Returns to the soft SW No. entry display.</p> <p>5) Select 1</p> <table border="1"> <tr> <td>STORED</td> </tr> </table> <p>After 2sec, returns to "1) Initial display".</p>	ENTER FAX SOFT SW. # (3 DIGITS) SW.	No. ### xxxxxxxx CHANGE? 1: YES 2: NO	No. ### xxxxxxxx USE # KEY 12345678	No. ### xxxxxxxx STORED? 1: YES 2: NO	STORED										
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No. ### xxxxxxxx USE # KEY 12345678																		
No. ### xxxxxxxx STORED? 1: YES 2: NO																		
STORED																		
	02	FAX soft SW initializing (excluding the adjustment values) (Executable only when the FAX is installed.)	<p>[Function] Use to initializing FAX soft SW.</p> <p>[Operation]</p> <p>1) Initial display</p> <table border="1"> <tr> <td>INITIALIZED</td> </tr> </table> <p>After 2sec, FAX control is terminated.</p>	INITIALIZED														
INITIALIZED																		

Main code	Sub code	Contents	Details of function/operation																																																																								
66	03	FAX PWB memory check (Executable only when the FAX is installed.)	<p>[Function] Use to check the FAX PWB memory.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT CHECK MEMORY PRESS ←, →</div> <p>2) [←/→] or after 2sec Every time when [→] key is pressed, the second line is changed in the sequence of No. 1 → 2 → 3 → 1. When [←] key is pressed, the sequence is reversed.</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; width: 30%;">SELECT MEMORY (1-3) 1:DRAM</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">SELECT MEMORY (1-3) 2:SRAM</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">SELECT MEMORY (1-3) 3:FLASH</div> </div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>3) [ENTER] key</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">CHECKING MEMORY</div> <p>4) After completion of check</p> <ul style="list-style-type: none"> • When the result is OK • In case of address bus check error • In case of data bus check error <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; width: 30%;">MEMORY CHECK RESULT OK</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">MEMORY CHECK RESULT XXXXXXXX A-BUS NG</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">MEMORY CHECK RESULT XXXXXXXX D-BUS NG</div> </div> <ul style="list-style-type: none"> • In case of sum check error • In case of data check error • In case of erase check error <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; width: 30%;">MEMORY CHECK RESULT XXXXXXXX SUM NG</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">MEMORY CHECK RESULT XXXXXXXX DATA NG</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">MEMORY CHECK RESULT XXXXXXXX ERASE NG</div> </div> <p>* [CLEAR] key: Returns to "1) Initial display".</p>																																																																								
04		Signal send mode (Max. value) (Executable only when the FAX is installed.)	<p>[Function] Use to set the signal send mode (Max. value). Facsimile test command design specifications.</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tbody> <tr><td>1</td><td>NO SIGNAL</td><td>13</td><td>7200bps(V34)</td><td>25</td><td>2400bps(V27ter)</td></tr> <tr><td>2</td><td>33600bps(V34)</td><td>14</td><td>4800bps(V34)</td><td>26</td><td>300bps(FLAG)</td></tr> <tr><td>3</td><td>31200bps(V34)</td><td>15</td><td>2400bps(V34)</td><td>27</td><td>2100Hz(CED)</td></tr> <tr><td>4</td><td>28800bps(V34)</td><td>16</td><td>14400bps(V33)</td><td>28</td><td>1100Hz(CNG)</td></tr> <tr><td>5</td><td>26400bps(V34)</td><td>17</td><td>12000bps(V33)</td><td>29</td><td>300bps(V21)</td></tr> <tr><td>6</td><td>24000bps(V34)</td><td>18</td><td>14400bps(V17)</td><td>30</td><td>2100Hz(ANSam)</td></tr> <tr><td>7</td><td>21600bps(V34)</td><td>19</td><td>12000bps(V17)</td><td>31</td><td>DUMMY RING</td></tr> <tr><td>8</td><td>19200bps(V34)</td><td>20</td><td>9600bps(V17)</td><td>32</td><td>NO VOICE ANSWER</td></tr> <tr><td>9</td><td>16800bps(V34)</td><td>21</td><td>7200bps(V17)</td><td>33</td><td>NO RING BACK TONE</td></tr> <tr><td>10</td><td>14400bps(V34)</td><td>22</td><td>9600bps(V29)</td><td>34</td><td>LINE OFF HOOK</td></tr> <tr><td>11</td><td>12000bps(V34)</td><td>23</td><td>7200bps(V29)</td><td>35</td><td>LINE ON HOOK</td></tr> <tr><td>12</td><td>9600bps(V34)</td><td>24</td><td>4800bps(V27ter)</td><td></td><td></td></tr> </tbody> </table> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT OUTPUT SIGNAL (2 DIGITS) No. _____</div> <p>2) 2-digit (1-35) with [10KEY] / [←/→] / 2sec after Pressing [→] key or [←] key reverses the sequence.</p> <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">No. (1-35) 1:NO SIGNAL</div> <div style="border: 1px solid black; padding: 2px; width: 10%;">.....</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">No. (1-35) 35:LINE ON HOOK</div> </div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>3) [ENTER] key Send after setting</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">OUTPUTING SIGNAL MAX PRESS CLEAR TO STOP</div> <p>* [CLEAR] key: Returns to "1) Initial display".</p>	1	NO SIGNAL	13	7200bps(V34)	25	2400bps(V27ter)	2	33600bps(V34)	14	4800bps(V34)	26	300bps(FLAG)	3	31200bps(V34)	15	2400bps(V34)	27	2100Hz(CED)	4	28800bps(V34)	16	14400bps(V33)	28	1100Hz(CNG)	5	26400bps(V34)	17	12000bps(V33)	29	300bps(V21)	6	24000bps(V34)	18	14400bps(V17)	30	2100Hz(ANSam)	7	21600bps(V34)	19	12000bps(V17)	31	DUMMY RING	8	19200bps(V34)	20	9600bps(V17)	32	NO VOICE ANSWER	9	16800bps(V34)	21	7200bps(V17)	33	NO RING BACK TONE	10	14400bps(V34)	22	9600bps(V29)	34	LINE OFF HOOK	11	12000bps(V34)	23	7200bps(V29)	35	LINE ON HOOK	12	9600bps(V34)	24	4800bps(V27ter)		
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Main code	Sub code	Contents	Details of function/operation																																																																								
66	05	Signal send mode (Soft SW set value) (Executable only when the FAX is installed.)	<p>[Function] Use to set the signal send mode (Soft SW set value). Facsimile test command design specifications.</p> <table border="1"> <tr><td>1</td><td>NO SIGNAL</td><td>13</td><td>7200bps(V34)</td><td>25</td><td>2400bps(V27ter)</td></tr> <tr><td>2</td><td>33600bps(V34)</td><td>14</td><td>4800bps(V34)</td><td>26</td><td>300bps(FLAG)</td></tr> <tr><td>3</td><td>31200bps(V34)</td><td>15</td><td>2400bps(V34)</td><td>27</td><td>2100Hz(CED)</td></tr> <tr><td>4</td><td>28800bps(V34)</td><td>16</td><td>14400bps(V33)</td><td>28</td><td>1100Hz(CNG)</td></tr> <tr><td>5</td><td>26400bps(V34)</td><td>17</td><td>12000bps(V33)</td><td>29</td><td>300bps(V21)</td></tr> <tr><td>6</td><td>24000bps(V34)</td><td>18</td><td>14400bps(V17)</td><td>30</td><td>2100Hz(ANSam)</td></tr> <tr><td>7</td><td>21600bps(V34)</td><td>19</td><td>12000bps(V17)</td><td>31</td><td>DUMMY RING</td></tr> <tr><td>8</td><td>19200bps(V34)</td><td>20</td><td>9600bps(V17)</td><td>32</td><td>NO VOICE ANSWER</td></tr> <tr><td>9</td><td>16800bps(V34)</td><td>21</td><td>7200bps(V17)</td><td>33</td><td>NO RING BACK TONE</td></tr> <tr><td>10</td><td>14400bps(V34)</td><td>22</td><td>9600bps(V29)</td><td>34</td><td>LINE OFF HOOK</td></tr> <tr><td>11</td><td>12000bps(V34)</td><td>23</td><td>7200bps(V29)</td><td>35</td><td>LINE ON HOOK</td></tr> <tr><td>12</td><td>9600bps(V34)</td><td>24</td><td>4800bps(V27ter)</td><td></td><td></td></tr> </table> <p>[Operation] 1) Initial display <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT OUTPUT SIGNAL (2 DIGITS) No. _____</div> 2) 2-digit (1-35) with [10KEY] / [←/→] / 2sec after Pressing [→] key or [←] key reverses the sequence. <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">No. (1-35) 1:NO SIGNAL</div> <div style="font-size: 2em;">.....</div> <div style="border: 1px solid black; padding: 2px;">No. (1-35) 35:LINE ON HOOK</div> </div> * [CLEAR] key: FAX control is terminated. 3) [ENTER] key Send after setting <div style="border: 1px solid black; padding: 2px; width: fit-content;">OUTPUTING SIGNAL SSW PRESS CLEAR TO STOP</div> * [CLEAR] key: Returns to "1) Initial display".</p>	1	NO SIGNAL	13	7200bps(V34)	25	2400bps(V27ter)	2	33600bps(V34)	14	4800bps(V34)	26	300bps(FLAG)	3	31200bps(V34)	15	2400bps(V34)	27	2100Hz(CED)	4	28800bps(V34)	16	14400bps(V33)	28	1100Hz(CNG)	5	26400bps(V34)	17	12000bps(V33)	29	300bps(V21)	6	24000bps(V34)	18	14400bps(V17)	30	2100Hz(ANSam)	7	21600bps(V34)	19	12000bps(V17)	31	DUMMY RING	8	19200bps(V34)	20	9600bps(V17)	32	NO VOICE ANSWER	9	16800bps(V34)	21	7200bps(V17)	33	NO RING BACK TONE	10	14400bps(V34)	22	9600bps(V29)	34	LINE OFF HOOK	11	12000bps(V34)	23	7200bps(V29)	35	LINE ON HOOK	12	9600bps(V34)	24	4800bps(V27ter)		
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07		Image memory content print (Executable only when the FAX is installed.)	<p>[Function] Use to print the image memory content.</p> <p>[Operation]</p> <ul style="list-style-type: none"> <li style="width: 33%;">• When print is allowed <li style="width: 33%;">• When there is no print data <li style="width: 33%;">• When print is inhibited <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; width: 30%;">PRINT STORED</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">NO DATA</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">CAN NOT PRINT</div> </div> <p>After completion of printing, FAX control is terminated. After 2 sec, FAX control is terminated. After 2 sec, FAX control is terminated.</p>																																																																								
10		Image memory content clear (Executable only when the FAX is installed.)	<p>[Function] Use to clear the image memory content.</p> <p>[Operation]</p> <ul style="list-style-type: none"> <li style="width: 60%;">• When there are some print data <li style="width: 40%;">• When there are no print data <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">CLEAR IMAGE MEMORY</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">CLEAR IMAGE MEMORY</div> </div> <p>After completion of memory clear, the buzzer sounds. After completion of memory clear</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; width: 45%;">CLEARED PLEASE POWER OFF</div> <div style="border: 1px solid black; padding: 2px; width: 45%;">CLEARED</div> </div> <p>Remains unchanged until the power is turned off. After 2sec, FAX control is terminated.</p>																																																																								

Main code	Sub code	Contents	Details of function/operation
66	11	300bps signal send (Max. value) (Executable only when the FAX is installed.)	<p>[Function] Use to set the 300bps signal send (Max. value).</p> <p>1: NO SIGNAL 2: 11111 3: 11110 4: 00000 5: 010101 6: 00001</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT SIGNAL PRESS ←, →</div> <p>2) [←/→] or after 2sec</p> <p>Every time when [→] key is pressed, the second line is changed in the sequence of No. 1 → 2 → 3 → 4 → 5 → 6 → 1.</p> <p>When [←] key is pressed, the sequence is reversed.</p> <div style="display: flex; justify-content: space-between; border: 1px solid black; padding: 2px;"> <div style="border: 1px solid black; padding: 2px;">SELECT SIGNAL (1-6) 1:NO SIGNAL</div> <div style="border: 1px solid black; padding: 2px;">.....</div> <div style="border: 1px solid black; padding: 2px;">SELECT SIGNAL (1-6) 6:00001</div> </div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>3) [ENTER] key</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">OUTPUTING SIGNAL MAX PRESS CLEAR TO STOP</div> <p>* [CLEAR] key: Returns to "1) Initial display".</p>
	12	300bps signal send (Soft SW set value) (Executable only when the FAX is installed.)	<p>[Function] Use to set the 300bps signal send (Soft SW set value).</p> <p>1: NO SIGNAL 2: 11111 3: 11110 4: 00000 5: 010101 6: 00001</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT SIGNAL PRESS ←, →</div> <p>2) [←/→] or after 2sec</p> <p>Every time when [→] key is pressed, the second line is changed in the sequence of No. 1 → 2 → 3 → 4 → 5 → 6 → 1.</p> <p>When [←] key is pressed, the sequence is reversed.</p> <div style="display: flex; justify-content: space-between; border: 1px solid black; padding: 2px;"> <div style="border: 1px solid black; padding: 2px;">SELECT SIGNAL (1-6) 1:NO SIGNAL</div> <div style="border: 1px solid black; padding: 2px;">.....</div> <div style="border: 1px solid black; padding: 2px;">SELECT SIGNAL (1-6) 6:00001</div> </div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>3) [ENTER] key</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">OUTPUTING SIGNAL SSW PRESS CLEAR TO STOP</div> <p>* [CLEAR] key: Returns to "1) Initial display".</p>

Main code	Sub code	Contents	Details of function/operation
66	13	Dial test (Executable only when the FAX is installed.)	<p>[Function] Use to the dial test.</p> <p>[Operation]</p> <p>■ Dial test (PULSE)</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT SIGNAL 1:PULSE 2:DTMF</div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>2) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT MAKE TIME (0-15)</div> <p>3) Enter the make time in 2 digits.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT DIAL # XXXX</div> <p>XXXX: Default</p> <p>* After deleting with [CLEAR] key, input can be made.</p> <p>4) [ENTER] key</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SEND yyPPS xxms 1:YES 2:NO</div> <p>"yy" is the selected pulse 10 or 20. "xx" is the input value.</p> <p>* Select 2: Returns to "2)" display.</p> <p>5) Select 1</p> <p>Switched to 10/20PPS set with pulse selection inside.</p> <p>6) After setting</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SENDING yyPPS xxms</div> <p>7) After completion of sending</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">TERMINATE ? 1:YES 2:NO</div> <p>* Select 2: Returns to "4)" display.</p> <p>8) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">TERMINATED</div> <p>After 2sec, returns to "1) Initial display".</p> <p>■ Dial test (DTMF)</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT SIGNAL 1:PULSE 2:DTMF</div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>2) Select 2</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT HIGH LEVEL 1:DEFAULT 2:SOFT SW.</div> <p style="text-align: center;">↓ Select 2</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT VALUE (0-15)</div> <p style="text-align: center;">↓</p> <p>3) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT LOW LEVEL 1:DEFAULT 2:SOFT SW.</div> <p style="text-align: center;">↓ Select 2</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT VALUE (0-15)</div> <p style="text-align: center;">↓</p> <p>4) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT DIAL # XXXX</div> <p>XXXX: Default</p> <p>* After deleting with [CLEAR] key, input can be made.</p> <p>4) [ENTER] key</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">H:xx L:yy 1:YES 2:NO</div> <p>"xx" indicates HI, and "yy" indicates Low Soft SW.</p> <p>* Select 2: Returns to "4)" display.</p> <p>5) Select 1</p> <p>HI/LO is selected with the signal level inside.</p> <p>6) After setting the signal send level</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SENDING DTMF</div> <p>7) After completion of sending</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">TERMINATE ? 1:YES 2:NO</div> <p>* Select 2: Returns to "4)" display.</p> <p>8) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">TERMINATED</div> <p>After 2sec, returns to "1) Initial display".</p>
17		DTMF signal send (Max. value) (Executable only when the FAX is installed.)	<p>[Function] Use to set the DTMF signal send (Max. value).</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT DIAL #</div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>2) [10KEY] input</p> <p>The content selected with signal send level selection is set inside.</p> <p>3) Communication is started after setting the signal send level.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SENDING SIGNAL MAX PRESS CLEAR TO STOP</div> <p>* [CLEAR] key: Returns to "1) Initial display".</p>

Main code	Sub code	Contents	Details of function/operation
66	18	DTMF signal send (Soft SW set value) (Executable only when the FAX is installed.)	<p>[Function] Use to set the DTMF signal send (Soft SW set value).</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT DIAL #</div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>2) [10KEY] input</p> <p>The content selected with signal send level selection is set inside.</p> <p>3) Communication is started after setting the signal send level.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SENDING SIGNAL SSW PRESS CLEAR TO STOP</div> <p>* [CLEAR] key: Returns to "1) Initial display".</p>
21		FAX information print (Executable only when the FAX is installed.)	<p>[Function] Use to print the FAX information.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT REPORT (1-3) PRESS ←, →</div> <p>2) [←/→] or after 2sec</p> <p>Every time when [→] key is pressed, the second line is changed in the sequence of 1 → 2 → 3 → 1.</p> <p>When [←] key is pressed, the sequence is reversed.</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; width: 30%;">SELECT REPORT (1-3) 1:USER SW. LIST</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">SELECT REPORT (1-3) 2:SOFT SW. LIST</div> <div style="border: 1px solid black; padding: 2px; width: 30%;">SELECT REPORT (1-3) 3:PROTOCOL</div> </div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>3) [ENTER] key</p> <ul style="list-style-type: none"> • When print is allowed • When print is inhibited <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 2px; width: 40%;">PRINT STORED</div> <div style="border: 1px solid black; padding: 2px; width: 40%;">CAN NOT PRINT</div> </div> <p>After completion of printing, FAX control is terminated.</p> <p>After 2sec, FAX control is terminated.</p>
24		FAST SRAM clear (Executable only when the FAX is installed.)	<p>[Function] Use to clear the FAST SRAM.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">CLEAR FAST SRAM</div> <p>2) After completion of clearing</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: auto;">CLEARED</div> <p>After 2sec, FAX control is terminated.</p>
30		TEL/LIU status change check (Executable only when the FAX is installed.)	<p>[Function] Use to check the TEL/LIU status change.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">HS2 :xxx HS1 :xxx RHS :xxx EXHS :xxx</div> <p style="text-align: center;">↑</p> <p>The display is switched every 2sec.</p> <p style="text-align: center;">↓</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-bottom: 10px;">CHECKING PRESS CLEAR TO STOP</div> <p>* [CLEAR] key: FAX control is terminated.</p>

Main code	Sub code	Contents	Details of function/operation
66	32	Receive data check (Executable only when the FAX is installed.)	<p>[Function] Use to check the receive data.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">RECEIVING</div> <p>2) After completion of reception</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">RESULT xx</div> <p>"xx" is "OK" or "NG" depending on the check result. * [CLEAR] key: FAX control is terminated.</p>
	33	Signal detection check (Executable only when the FAX is installed.)	<p>[Function] Use to check the signal detection.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">CHECKING NONE PRESS CLEAR TO STOP</div> <p>When a signal is detected, the display is changed from NONE to the following. CI/CNG/CED/BT/DT/Flag/SDT/DTMF * [CLEAR] key: FAX control is terminated.</p>
	34	Communication time measurement (Executable only when the FAX is installed.)	<p>[Function] Use to measurement the communication time.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">COMM. TIME xx:xx:xx:xxx msec</div> <p>"xx:xx:xx:xxx" indicates o'clock, minute, second, millisecond. * [CLEAR] key: FAX control is terminated.</p>
	37	Speaker sound volume setting (Executable only when the FAX is installed.)	<p>[Function] Use to set the speaker sound volume.</p> <p>1: NO SOUND 2: LOW 3: MID 4: HIGH</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT SPEEKER VOL. PRESS ←, →</div> <p>2) [←/→] or after 2sec</p> <p>Every time when [→] key is pressed, the second line is changed in the sequence of 1 → 2 → 3 → 4 → 1. When [←] key is pressed, the sequence is reversed.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="border: 1px solid black; padding: 2px; width: 150px;">SELECT (1-4) 1:NO SOUND</div> <div style="border: 1px solid black; padding: 2px; width: 150px;">SELECT (1-4) 2:LOW</div> <div>.....</div> </div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>3) [ENTER] key</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">STORED xxx</div> <p>xxx: Set content After 2sec, FAX control is terminated.</p>

Main code	Sub code	Contents	Details of function/operation
66	38	Time setting/check (Executable only when the FAX is installed.)	<p>[Function] Use to check the time setting.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">SELECT TO SET 1:DATE 2:TIME</div> <p>* [CLEAR] key: FAX control is terminated.</p> <p>2) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">xxxx.xx.xx (xxx) CHANGE? 1:YES 2:NO</div> <p>"xxxx.xx.xx(xxx)" is the current value. (No revision of display)</p> <p>3) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT YEAR (4 DIGITS) ____ . ____ . ____</div> <p>* Select 2: Returns to "1) Initial display".</p> <p>4) Enter the year in 4 digits.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT MONTH (1-12) 1998 . ____ . ____</div> <p>5) Enter the month in 2 digits.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT DAY (1-31) 1998 . 01 . ____</div> <p>6) Enter the day in 2 digits.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">xxxx.xx.xx (xxx) STORED? 1:YES 2:NO</div> <p>"xxxx.xx.xx(xxx)" is the entered value.</p> <p>* Select 2: Returns to "1) Initial display".</p> <p>7) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">STORED</div> <p>After 2sec, returns to "1) Initial display".</p>
			<p>2) Select 2</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">xx:xx CHANGE? 1:YES 2:NO</div> <p>"xx:xx" is the current value.</p> <p>3) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT HOUR (0-24) ____ : ____</div> <p>* Select 2: Returns to "1) Initial display".</p> <p>4) Enter o'clock in 2 digits.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">INPUT MINUTE (00-59) 01 : ____</div> <p>5) Enter minute in 2 digits.</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">xx:xx STORED? 1:YES 2:NO</div> <p>"xx:xx" is the current value.</p> <p>* Select 2: Returns to "1) Initial display".</p> <p>6) Select 1</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">STORED</div> <p>After 2sec, returns to "1) Initial display".</p>
	41	CI signal check (Executable only when the FAX is installed.)	<p>[Function] Use to check the CI signal. When CI signal is detected, OFF → ON.</p> <p>[Operation]</p> <p>1) Initial display</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">CHECKING CI:OFF PRESS CLEAR TO STOP</div> <p>* [CLEAR] key: FAX control is terminated.</p>

5. Trouble codes

A. Trouble codes list

Main code	Sub code	Details of trouble
E1	00	IMC communication trouble
	10	IMC trouble
	13	IMC flash ROM error
	16	IMC DIMM memory read/write check error
	81	IMC communication interface error (parity)
	82	IMC communication interface error (Overrun)
	84	IMC communication interface error (Framing)
E7	02	LSU trouble
	10	Shading trouble (Black correction)
	11	Shading trouble (White correction)
	16	Abnormal laser output
F2	04	Improper cartridge (Destination error, life cycle error)
F5	02	Copy lamp lighting abnormality
F6	10	FAX board trouble
H2	00	Thermistor open
H3	00	Heat roller high temperature detection
H4	00	Heat roller low temperature detection
L1	00	Feeding is not completed within the specified time after starting feeding. (The scan head locking switch is locked)
L3	00	Scanner return trouble
L4	01	Main motor lock detection
L6	10	Polygon motor lock detection
U1	03	FAX board battery error
U2	04	EEPROM read/write error (Serial communication error)
	11	Counter check sum error (EEPROM)
	40	CRUM chip communication error
U9	99	Operation panel language error

B. Details of trouble codes

Main code	Sub code	Details of trouble	
E1	00	Content	IMC communication trouble
		Detail	An abnormality occurs in communication between the CPU and the IMC.
		Cause	IMC – CPU signal line abnormality IMC Memory defect/data abnormality
		Check and remedy	Replace the MCU PWB with new one.
	10	Content	IMC trouble
		Detail	An abnormality occurs in the IMC.
		Cause	USB chip error/CODEC error on the IMC.
		Check and remedy	Replace the MCU PWB with a new one.
	13	Content	IMC flash ROM error
		Detail	An abnormality occurs in the IMC flash ROM.
		Cause	IMC abnormality
		Check and remedy	Replace the MCU PWB with a new one. If downloading of the program is abnormally terminated, it may cause an error. Download the program again to avoid this.

Main code	Sub code	Details of trouble		
E1	16	Content	IMC DIMM memory read/write check error	
		Detail	An installation error occurs in the IMC memory module. An error occurs during access to the IMC memory.	
		Cause	Improper installation of the IMC memory module. IMC memory module abnormality IMC memory contact abnormality IMC abnormality.	
		Check and remedy	Check installation of the memory module. Replace the memory module. Replace the MCU PWB with a new one.	
		81	Content	IMC communication interface error (parity)
			Detail	A parity error occurs in communication between the CPU and the IMC.
	82	Cause	IMC memory defect/data abnormality	
		Check and remedy	Check the memory of the IMC. Replace the MCU PWB with new one.	
		Content	IMC communication interface error (Overrun)	
		Detail	An overrun error occurs in communication between the CPU and the IMC.	
		Cause	IMC memory defect/data abnormality.	
		Check and remedy	Check the memory of the IMC. Replace the MCU PWB with new one.	
84	Content	IMC communication interface error (Framing)		
	Detail	A framing error occurs in communication between the CPU and the IMC.		
	Cause	IMC memory defect/data abnormality.		
	Check and remedy	Check the memory of the IMC.		
E7	02	Content	LSU trouble	
		Detail	The BD signal from the LSU cannot be detected in a certain cycle. (Always OFF or always ON)	
		Cause	LSU connector or LSU harness defect or disconnection Polygon motor rotation abnormality Laser beams are not generated. MCU PWB abnormality.	
		Check and remedy	Check connection of the LSU connector. Execute TC 61-03 to check the LSU operations. Check that the polygon motor rotates normally. Check that the laser emitting diode generates laser beams. Replace the LSU unit. Replace the MCU PWB.	
	10	Content	Shading trouble (Black correction)	
		Detail	The CCD black scan level is abnormal when the shading.	
		Cause	Improper connection of the CCD unit flat cable CCD unit abnormality MCU PWB abnormality	
		Check and remedy	Check connection of the CCD unit flat cable. Check the CCD unit.	

Main code	Sub code	Details of trouble	
E7	11	Content	Shading trouble (White correction)
		Detail	The CCD white scan level is abnormal when the shading.
		Cause	Improper connection of the CCD unit flat cable Dirt on the mirror, the lens, and the reference white plate Copy lamp lighting abnormality CCD unit abnormality MCU PWB abnormality (When occurred in the SPF scan position.) Improper installation of the mirror unit
		Check and remedy	Clean the mirror, lens, and the reference white plate. Check the light quantity and lighting status of the copy lamp (TC 05-03). Check the MCU PWB.
	16	Content	Abnormal laser output
		Detail	When the laser output is stopped, HSYNC is detected.
		Cause	Laser abnormality MCU PWB abnormality.
		Check and remedy	Check the laser emitting diode operation. Replace the MCU PWB.
F2	04	Content	Improper cartridge (Destination error, life cycle error)
		Detail	The destination of the main unit differs from that of the CRUM. The life cycle information is other than "FFh" (Not used).
		Cause	CRUM chip trouble Improper developing unit
		Check and remedy	Replace the CRUM chip. Replace the developing unit.
F5	02	Content	Copy lamp lighting abnormality
		Detail	The copy lamp does not turn on.
		Cause	Copy lamp abnormality Copy lamp harness abnormality CCD PWB harness abnormality.
		Check and remedy	Use TC 5-3 to check the copy lamp operations. When the copy lamp lights up. Check the harness and the connector between the CCD unit and the MCU PWB. When the copy lamp does not light up. Check the harness and the connector between the copy lamp unit and the MCU PWB. Replace the copy lamp unit. Replace the MCU PWB.
F6	10	Content	FAX board trouble
		Detail	Communication trouble between MCU and FAX control PWB
		Cause	FAX control PWB connector disconnection Defective harness between FAX control PWB and MCU PWB Motherboard connector pin breakage FAX control PWB ROM error/Data error IC on FAX PWB causes abnormality
		Check and remedy	Check connector/harness of FAX control PWB and MCU PWB. Check the grounding of the copier. Check FAX control PWB ROM. Replace the FAX PWB.

Main code	Sub code	Details of trouble		
H2	00	Content	Thermistor open	
		Detail	The thermistor is open. The fusing unit is not installed.	
		Cause	Thermistor abnormality Control PWB abnormality Fusing section connector disconnection The fusing unit is not installed.	
	Check and remedy	Check the harness and the connector between the thermistor and the PWB. Use TC 14 to clear the self diagnostic display.		
	H3	00	Content	Heat roller high temperature detection
			Detail	The fusing temperature exceeds 240°C.
Cause		Thermistor abnormality Control PWB abnormality Fusing section connector disconnection.		
Check and remedy		Use TC 5-02 to check the heater lamp blinking operation. When the lamp blinks normally. Check the thermistor and its harness. Check the thermistor input circuit on the control PWB. When the lamp keeps ON. Check the power PWB and the lamp control circuit on the MCU PWB. Use TC 14 to clear the self diagnostic display.		
H4	00	Content	Heat roller low temperature detection	
		Detail	The fusing temperature does not reach 185°C within 27 sec of turning on the power, or the fusing temperature keeps at 140°C.	
	Cause	Thermistor abnormality Heater lamp abnormality Thermostat abnormality Control PWB abnormality		
	Check and remedy	Use TC 5-02 to check the heater lamp blinking operation. When the lamp blinks normally. Check the thermistor and its harness. Check the thermistor input circuit on the control PWB. When the lamp does not light up. Check for disconnection of the heater lamp and the thermostat. Check the interlock switch. Check the power PWB and the lamp control circuit on the MCU PWB. Use TC 14 to clear the self diagnostic display.		

Main code	Sub code	Details of trouble	
L1	00	Content	Feeding is not completed within the specified time after starting feeding. (The scan head locking switch is locked)
		Detail	The white area and the black marking on the shading plate are used to obtain the difference in the CCD level values for judgment of lock. When the difference in the levels of which and black is small, it is judged that the black mark could not be scanned by lock and the trouble code "L1" is displayed.
		Cause	The scan head is locked by the lock switch. Mirror unit abnormality The scanner wire is disconnected. The origin detection sensor abnormality Mirror motor harness abnormality
		Check and remedy	Check to confirm that the scan head lock switch is released. Use TC 1-1 to check the mirror reciprocating operations. When the mirror does not feed. Check for disconnection of the scanner wire. Check the harness and the connector between the mirror motor and the MCU PWB. Replace the mirror unit. Replace the MCU PWB. When the mirror does feed. Use TC 1-2 to check the mirror home position sensor.
L3	00	Content	Scanner return trouble
		Detail	When the mirror base is returned for the specified time (6 sec) in mirror initializing after turning on the power, the mirror home position sensor (MHPS) does not turn ON. Or when the mirror base is returned for the specified time (about 6 sec) after start of copy return, the mirror home position sensor (MHPS) does not turn ON.
		Cause	Mirror unit abnormality Scanner wire disconnection Origin detection sensor abnormality Mirror motor harness abnormality
		Check and remedy	Use TC 1-1 to check the mirror reciprocating operations. When the mirror does not return. Check for disconnection of the scanner wire. Check the harness and the connector between the mirror motor and the MCU PWB. Replace the mirror unit. Replace the MCU PWB. When the mirror does feed. Use TC 1-2 to check the mirror home position sensor.
L4	01	Content	Main motor lock detection
		Detail	When the main motor encoder pulse is not detected for 100 msec.
		Cause	Main motor unit abnormality Improper connection or disconnection the main motor and the harness. MCU PWB abnormality
		Check and remedy	Use TC 25-01 to check the main motor operations. Check connection of the main motor harness/connector. Replace the main motor. Replace the MCU PWB.

Main code	Sub code	Details of trouble	
L6	10	Content	Polygon motor lock detection
		Detail	The lock signal (specified rpm signal) does not return within a certain time (about 20 sec) from starting the polygon motor rotation.
		Cause	Polygon motor unit abnormality Improper connection or disconnection of the polygon motor and the harness. MCU PWB abnormality
		Check and remedy	Use TC 61-1 to check the polygon motor operations. Check connection of the polygon motor harness/connector. Replace the polygon motor. Replace the MCU PWB.
U1	03	Content	FAX board battery error
		Details	The SRAM backup battery voltage on FAX PWB falls.
		Cause	The SRAM backup battery voltage on FAX PWB falls.
		Check and remedy	Check voltage of the SRAM back up battery. Replace the battery.
U2	04	Content	EEPROM read/write error (Serial communication error)
		Detail	EEPROM access process error
		Cause	EEPROM abnormality
		Check and remedy	Check that the EEPROM is properly set. Use TC 16 to cancel the trouble. Replace the MCU PWB.
	11	Content	Counter check sum error (EEPROM)
		Detail	Check sum error of the counter area in the EEPROM
		Cause	EEPROM abnormality
		Check and remedy	Check that the EEPROM is properly set. Use TC 16 to cancel the trouble. Replace the MCU PWB.
40	Content	CRUM chip communication error	
	Detail	An error occurs in MCU-CRUM chip communication.	
	Cause	CRUM chip trouble Defective contact of developing unit MCU PWB trouble	
	Check and remedy	Replace the CRUM chip. Check installation of the developing unit. Cancel the operation with TC16. Replace the MCU PWB.	
U9	99	Content	Operation panel language error
		Detail	There is no language file. The language file is destroyed.
		Cause	Language file abnormality MCU PWB abnormality
		Check and remedy	MCU firmware download Replace the MCU PWB.