CHAPTER 15: PANEL MESSAGES

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1. Explanation of Panel Messages

Overview of messages

1) Error code displays

- If an error occurs, an error message is displayed together with a graphic and an error code to indicate the problem to the user.
- Error code displays consist of an error type according to the type of error and an error point number corresponding to the error situation.

  Example: T99-123 T99: Error type

  123: Error point

2) Error type

The order of error priority is as shown below.

Error type	Error details
T	Serviceman call error
A	Jam error
B	Option error
C	Consumable error
D	Set error
E	Warning (call serviceman)

3) Error point

The error point classifications are as shown below.

Error point	Error details
0XX	System (hardware, software, communication), panel
1XX	Scanning section (scanner, ADF), image processing
2XX	Master making section
3XX	Master removal section
4XX	Paper feed/ejection section
5XX	Print drum
6XX	Printing adjustment section (vertical position, density)
7XX	Optional equipments (Job separator, Key /Card Counter)

2. List of Panel Messages

Error type	Details
T01	Main motor lock
T02	Elevator motor lock
T03	Clamp motor lock
T04	Overflow
T05	Vertical positioning pulse motor lock
T08	Computer interface error
T11	Pressure control motor lock
T12	Master removal motor lock
T13	Cutter motor lock
T14	Flat bed error
T15	ADF error
T17	Solenoid counter not connected
T19	Thermal pressure motor lock
T20	Master creation motor lock
T23	Scanner lock not released
T24	Inking motor lock
T25	No battery
T98	Hardware error

Error type	Details
A01	Master feed error
A02	Master loading error
A03	Cutting error
A04	Master removal error
A05	Master present in master removal section
A06	Check paper feed tray
A07	Paper feed error
A08	Paper jam on Print Drum
A09	Paper ejection error
A10	ADF original feed error
A16	Awaiting master removal
A17	Cutter error

Error type	Details
B01	Key/Card counter: No card

Error type	Details
C01	Replace ink cartridge
C02	Replace master roll
C03	Master disposal-box-full
C04	No paper

Error type	Details
D01	Print drum not set
D02	Incorrect print drum
D03	Ink cartridge not set
D04	Incorrect ink cartridge
D05	Master not mounted
D07	Master disposal box not set
D09	Master loading unit not set
D10	Scanner table not set
D11	Front cover not set

Error type	Details
E01	Replace battery
E02	Maintenance call

3. Details of Panel Messages

Technician errors

Error type	T01 [Main motor lock]
Panel display	T01-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T01-***.
Reset method	Jam reset -> Power failure/Emergency stop action
Error point	Error detection conditions
520	Main FG does not go ON/OFF for more than 8 pulses while the main motor is operating even after 100 ms has elapsed.
521	Position A sensor does not go ON/OFF while the main motor is operating even after 10s has elapsed.
523	Main motor over current.
524	Clamp sensors A or B were ON while the print drum operates. (Except during master removal)
536	osition A sensor went OFF while stopped at position A.

Error type	T02 [Elevator motor lock]
Panel display	T02-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T02-***.
Reset method	Jam reset -> Power failure/Emergency stop action
Error point	Error detection conditions
400	Both upper and lower limit sensors were ON.
401	Overload current detected in the elevator motor.
404	Lower limit sensor does not go OFF within 2 s after the elevator motor operates in the upper direction from the lower limit position.
405	Upper limit sensor does not go ON within 12 s after the elevator motor operates in the upper direction.
406	Upper limit sensor does not go OFF within 2 s after the elevator motor operates in the lower direction from upper limit position.
407	Lower limit sensor does not go ON within 12 s after the elevator motor operates in the lower direction.
408	Upper limit sensor is OFF continuously for at least 2 s during the elevator servo operation.

Error type	T03 [Clamp motor lock]
Panel display	T03-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T03-***.
Reset method	Jam reset -> Power failure/Emergency stop action
Error point	Error detection conditions
501	Clamp sensors A and B do not change 3 s after the clamp motor activates during clamp initialization.
502	Clamp sensor A or B was ON 13 s after the clamp motor activated during clamp initialization.
503	Clamp sensor B does not go ON within 3 s after the clamp motor activates during the clamp plate master release operation.
504	Clamp sensor A does not go ON and clamp sensor B does not go OFF within 12 s after the clamp motor activates during the clamp plate master release operation.
505	Clamp sensor B does not go ON within 3 s after the clamp motor activates during the clamp plate master clamp operation.
506	Clamp sensor A does not go OFF within 5 s after the clamp motor activates during the clamp plate master clamp operation.

Error type	T-04 [Overflow]
Panel display	T04-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T04-***.
Reset method	Jam reset and overflow sensor OFF
Error point	Error detection conditions
513	Overflow sensor was ON for a set number of times in succession during the 10-ms-interval overflow check.

Error type	[T05 [Vertical positioning pulse motor lock]
Panel display	T05-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T05-***.
Reset method	Jam reset -> Recovery operation (home position reset) Or: switch on power again.
Error point	Error detection conditions
603	Vertical centering sensor does not switch OFF -> ON even when vertical positioning pulse motor is moved 18 mm in the ON direction.
604	Vertical centering sensor does not switch ON -> OFF even when vertical positioning pulse motor is moved 18 mm in the OFF direction.
612	1-step vertical positioning key was pressed with undefined position data.

Error type	T08 [CI error]
Panel display	T08-*** A problem has occurred. Switch on power again. If resetting is not possible, notify technician of T08-***.
Reset method	Switch on power again.
Error point	Error conditions
002	CI communication error

Error type	T11 [Pressure control motor lock]
Panel display	T11-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T11-***.
Reset method	Jam reset -> Recovery operation (home position reset) Or: switch on power again.
Error point	Error conditions
600	Print pressure control sensor does not go OFF -> ON even when the pressure control motor is moved 3200 pulses in the direction of compression when setting the pressure control home position.
601	Print pressure control sensor does not go ON -> OFF even when the pressure control motor is moved 3200 pulses in the release direction when setting the pressure control home position.
602	Print pressure control sensor does not go OFF -> ON even when the pressure control motor is moved 10 pulses to check the home position when setting the pressure control home position.

Error type	T12 [Master removal motor lock]
Panel display	T12-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T12-***.
Reset method	Jam reset -> Recovery operation
Error point	Error conditions
300	Master removal motor (vertical transport motor) overload current detection is ON.
305	Master compression sensor does not go ON within 7 s after the master compression motor operates in the return direction.
306	Master compression sensor does not go OFF within 400 ms after the master compression motor operates in the direction of compression.
307	Master compression sensor does not go ON within 11 s after the master compression motor operates in the direction of compression.
309	Master compression sensor does not go OFF within 3 s after the master compression motor operates in the return direction.

Error type	T13 [Cutter motor lock]
Panel display	T13-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T13-***.
Reset method	Jam reset -> Recovery operation
Error point	Error conditions
203	Cutter home position switch does not go OFF within 200 ms after the cutter motor is activated.
204	Cutter home position switch does not go OFF -> ON within 400 ms after the cutter motor is activated.
205	Master positioning sensor is ON when the print drum rotates through the preset angle after cutting, and master positioning sensor is still ON when the print drum rotates through the preset angle after repeat cutting.

Error type	T14 [Flat bed fault]
Panel display	T14-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T14-***.
Reset method	Jam reset
Error point	Error conditions
100	Flat bed home position sensor does not go ON at the point when it should go OFF -> ON. (when moved the predetermined amount for FB original scanning or when moving to the ADF scanning position.)
101	Flat bed home position sensor does not go OFF at the point when it should go ON -> OFF. (when moved the predetermined amount for FB original scanning or when moving to the ADF scanning position.)
110	Communication error with shading IC.

Error type	T15 [ADF fault]
Panel display	T15-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T15-***.
Reset method	Jam reset
Error point	Error conditions
114	ADF original detection signal went OFF during ADF operation.
115	Operation clock of ADF transport motor is not correct.

Error type	T17 [Solenoid counter not connected]
Panel display	T17-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T17-***.
Reset method	Solenoid counter connection signal ON
Error point	Error conditions
020	Solenoid counter is not connected.

Error type	T19 [Thermal pressure motor lock]
Panel display	T19-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T19-***.
Reset method	Jam reset
Error point	Error conditions
207	TPH pressure sensor does not go OFF within 250 ms after the thermal pressure motor activates.
208	TPH pressure sensor does not go OFF within 1 s after the thermal pressure motor activates.

Error type	T20 [Master creation motor lock]
Panel display	T20-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T20-***.
Reset method	Jam reset
Error point	Error conditions
416	An overload current was detected in the feed motor.

Error type	T23 [Scanner lock not released]
Panel display	T23-*** Scanner is locked. Release lock.
Reset method	Clear the scanner lock mode. (Test mode No. 155)
Error point	Error conditions
111	In scanner lock mode.

Error type	T24 [Inking motor lock]
Panel display	T24-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T24-***.
Reset method	Jam reset or switch on power again.
Error point	Error conditions
539	Inking motor current overload.

Error type	T25 [No battery]
Panel display	T25-*** A problem has occurred. Press the lower right "Jam Reset" key. If resetting is not possible, notify technician of T25-***.
Reset method	Replace battery. * The machine does not operate when this error occurs.
Error point	Error conditions
026	Residual battery voltage below 1.5 V when power is ON.

Error type	T98 [Hardware error]
Panel display	T98-*** A problem has occurred. Switch on power again. If resetting is not possible, notify technician of T98-***.
Reset method	Switch on power again.
Error point	Error conditions
005	Hardware error.
006	Memory check sum error. Memory contents have changed since power was last switched off. * If this error occurs, a memory fault is identified the next time the power is switched on, and the memory (test mode, user mode, memory mode, and error backup details) is cleared.
028	AMF PCB was fitted to machine not compatible with AMF PCB or AMF PCB was not fitted to machine compatible with AMF PCB.
543	Print drum communication error.

Jam errors

Error type	A01 [Master feed error]
Panel display	A01-*** Master jammed. Rewind master, and the reset.
Reset method	Master loading unit switch: OFF -> ON, then master positioning sensor OFF. (Or switch on power again.)
Error point	Error conditions
201	Master positioning sensor does not go ON even when the master is fed preset amount after write pulse motor is activated.
202	Master positioning sensor does not go OFF even when the master is rewound during master positioning operation.
211	Master positioning sensor was ON during standby.
214	Master positioning sensor was ON at start of master creation.
215	Faulty gate array control for write pulse motor or load pulse motor.

Error type	A02 [Master loading error]
Panel display	A02-*** Master jammed. Rewind master, and the reset.
Reset method	Master loading unit switch: OFF -> ON, then master positioning sensor OFF. -> Recovery operation
Error point	Error conditions
509	Master loading sensor was OFF when checking master at specified angle in master loading operation.

Error type	A03 [Cutting error]
Panel display	A03-*** Master is not correctly wound onto print drum. Remove master from print drum.
Reset method	Print drum set sensor: OFF -> ON -> Recovery operation
Error point	Error conditions
206	Cutting was performed after repeating cutting operation.

Error type	A04 [Master removal error]
Panel display	A04-*** Cannot eject master. Pull out print drum and remove master.
Reset method	Print drum set sensor: OFF -> ON -> Recovery operation
Error point	Error conditions
303	OFF/OFF in removal jam sensor check at 70°/90°.
304	Removal jam sensor was ON at end of removed master feed operation.
314	Emergency stop or power failure occurred while releasing clamp in master removal operation.

Error type	A05 [Master present in master removal section]
Panel display	A05-*** Master jammed in master removal section. Open master removal unit and remove master.
Reset method	Master removal unit set sensor: OFF -> ON, and Removal jam sensor: OFF (Or switch on power again.)
Error point	Error conditions
312	Removal jam sensor was ON on starting master making operation.

Error type	A06 [Check paper feed tray]
Panel display	A06-*** Check paper feed tray.
Reset method	Paper feed tray lower safety switch goes ON. (Or switch on power again.)
Error point	Error conditions
403	Paper feed tray lower safety switch was OFF.

Error type	A07 [Paper feed error]
Panel display	A07-*** Paper jammed. Check paper feed side, and press the lower right "Jam Reset" key.
Reset method	Set paper sensor to OFF, and reset jam.
Error point	Error conditions
409	Paper receiving sensor was OFF when paper arrived and paper sensor was ON at 180° just before stopping.
412	Paper sensor was OFF three times in succession when detecting first stage paper feed jam. (Non-pickup error)
413	Paper sensor was ON when paper left paper sensor. (Scale error)
418	Paper sensor was ON at start of operation.

Error type	A08 [Ejected paper lifting up]
Panel display	A08-*** Paper jammed. Pull out print drum and remove jammed paper.
Reset method	Print drum set sensor: OFF -> ON. (Or switch on power again.)
Error point	Error conditions
410	Paper receiving sensor was OFF when paper arrived and paper sensor was OFF at 180° just before stopping.

Error type	A09 [Paper ejection error]
Panel display	A09-*** Paper jammed. Check paper ejection side, and press the lower right "Jam Reset" key.
Reset method	Set paper receiving sensor to OFF, and reset jam.
Error point	Error conditions
411	Paper receiving sensor was ON when paper left paper receiving sensor.
417	Paper receiving sensor was ON at start of operation.

Error type	A10 [ADF original feed error]
Panel display	A10-*** Paper jammed. Remove paper while pressing the reset button. Press the lower right "Jam Reset" key.
Reset method	Set ADF original detection sensor to OFF, and reset jam.
Error point	Error conditions
104	ADF original feed error (1): Original was missing when fed in. Original detection sensor was already ON when power was switched on or when jam was reset. Did not leave original registration sensor even when fed 543 mm after starting scanning.
105	ADF original feed error (2): Did not leave original read sensor even when fed 114 mm after original registration sensor went OFF.
106	ADF original feed error (3): Did not leave paper receiving sensor even when fed 117 mm after original read sensor went OFF.
107	ADF original feed error (4): Did not reach original registration sensor even when fed 182 mm after start of feeding in.
108	ADF original feed error (5): Did not reach original read sensor even when fed 138 mm after start of scanning.
109	ADF original feed error (6): Did not reach paper receiving sensor even when fed 117 mm after original read sensor went ON.

Error type	A16 [Awaiting master removal]
Panel type	A16-*** Pull out print drum and remove master mounted on print drum.
Reset method	Print drum set sensor: OFF -> ON -> Recovery operation
Error point	Error conditions
525	Master not cut due to cutter motor locking at emergency stop.

Error type	A17 [Cutter fault]
Panel display	A17-*** Problem occurred. Remove master and close master creation unit.
Reset method	Master loading set unit: OFF -> ON, and Master detection sensor: OFF -> Recovery operation
Error point	Error conditions
209	Cutter home position switch was OFF during master setting at start of master creation.

Option errors

Error type	B01 [Card counter: No card]
Panel display	B01-*** Insert the card for the card counter.
Reset method	Insert card.
Error point	Error conditions
728	No card counter card.

Consumable errors

Error type	C01 [Replace ink cartridge]
Panel display	C01-*** Ink is exhausted. Replace ink cartridge.
Reset method	Ink cartridge set switch: OFF -> ON.
Error point	Error conditions
512	Ink sensor does not go ON even when inking is run for preset period.

Error type	C02 [Replace master roll]
Panel display	C02-*** No more masters. Replace master roll.
Reset method	Master loading sensor: OFF -> ON, and Master detection sensor: OFF -> ON.
Error point	Error conditions
200	Master end detected twice in succession at 10 ms interval check during master transport.

Error type	C03 [Master disposal-box-full]
Panel display	C03-*** Empty master disposal box.
Reset method	Disposal box full sensor to ON after switching OFF for 5 s.
Error point	Error conditions
308	Master disposal box detected as full by disposal box full sensor.
313	Master disposal box detected as full by software master count.

Error type	C04 [No paper]
Panel display	C04-*** Set paper.
Reset method	Paper detection sensor to ON.
Error point	Error conditions
402	Paper detection sensor was OFF.

Setting check errors

Error type	D01 [Print drum not set]
Panel display	D01-*** Set print drum.
Reset method	Print drum safety switch: ON, and Print drum set sensor: ON.
Error point	Error conditions
526	Print drum safety switch was ON and print drum set sensor was OFF on setting print drum.
527	Print drum safety switch was OFF.
546	Print drum set sensor does not go ON within 2 s after print drum safety switch goes OFF -> ON on setting print drum.

Error type	D02 [Incorrect print drum]
Panel display	D02-*** Incorrect print drum. Set correct print drum.
Reset method	Replace with correct print drum.
Error point	Error conditions
532	Print drum is incorrect.

Error type	D03 [Ink cartridge not set]
Panel display	D03-*** Set ink cartridge.
Reset method	Ink cartridge set switch: ON
Error point	Error conditions
533	Ink cartridge set switch was OFF.

Error type	D04 [Incorrect ink cartridge]
Panel display	D04-*** Incorrect ink cartridge. Set correct ink cartridge.
Reset method	Replace with correct ink cartridge.
Error point	Error conditions
534	Ink cartridge was incorrect.

Error type	D05 [Master not mounted]
Panel display	D05-*** Master is not mounted correctly. Insert leading edge of master in inlet and close master creation unit.
Reset method	Master detection sensor: ON.
Error point	Error conditions
210	Master detection sensor was OFF.

Error type	D07 [Master disposal box not set]
Panel display	D07-*** Set master disposal box.
Reset method	Master removal section safety switch: ON.
Error point	Error conditions
310	Master disposal box set switch was OFF.

Error type	D09 [Master loading unit not set]
Panel display	D09-*** Close master loading unit.
Reset method	Master loading unit switch: ON.
Error point	Error conditions
212	Master loading unit switch was OFF.

Error type	D10 [Scanner table not set]
Panel display	D10-*** Set scanner table.
Reset method	Scanner table set switch: ON.
Error point	Error conditions
213	Scanner table set switch was OFF.

Error type	D11 [Front cover not set]
Panel display	D11-*** Close front cover.
Reset method	Front cover set switch: ON.
Error point	Error conditions
535	Front cover set switch was OFF.

Warnings

Error type	E01 [Replace battery]
Panel display	E01-*** Battery must be replaced. Contact technician. (Press lower right "Jam Reset" to continue operation.)
Reset method	Jam reset
Error point	Error conditions
010	Battery voltage is less than 2.1 V when power is switched ON, reset, or operation ended. (Battery replacement)

Error type	E02 [Call technician]
Panel display	E02-*** Time for periodic maintenance. Contact technician. (Press lower right "Jam Reset" to continue operation.)
Reset method	Jam reset

Error point	Error conditions
011	Number of masters completed reached value set in Test mode when power was switched ON, reset, or operation ended.
012	Number of prints completed reached value set in Test mode when power was switched ON, reset, or operation ended.
022	Maintenance counter inside print drum reached value set in Test mode when power was switched ON, reset, or operation ended.

4. Backed-up Errors

The following errors are backed up and are not cleared even when the power is switched off.

Error type	Error details
T01	Main motor lock
T03	Clamp motor lock
T13	Cutter motor lock
T18	Master mounting motor lock
A02	Master mounting error
A03	Cutting error
A04	Master removal error
A16	Awaiting master removal
A17	Cutter fault
C01	Replace ink cartridge
C02	Replace master roll
C03	Master disposal-box-full