F. ERROR CODES

ERROR CODES	ERROR DESCRIPTION	CORRECTIVE ACTION
00000	Normal Status	Normal Status
20001	The Cash Dispenser Unit cassette is not installed. The Control Electronics checks if the Cash Dispenser Unit cassette is in the right position with the location sensor (CS7/17/27&NS11/16), and generates an error when the Cash Dispenser Unit is not in the correct position.	1. Set the cassette again. 2. Check if CS7/17/27(NS11/16) is fully pressed while the cassette is loaded. 3. Check if CS7/17/27(NS11/16) connector has been properly inserted and if cable is cut. 4. Check logic related to CS7/17/27(NS11/16) of the Cash Dispenser Unit board.
20002	Cash is not enough. This error occurs in the following cases: When the number of bills is "0" after the final payment transaction is made When the low level sensor (CS6/16/26&NS6/16) detects that the cassettes is at a low level in "Low currency check enable" mode "	Fill cash and set the number of bills. * In "Low currency enable" mode: 1. Check if CS6/16/26(NS6/16) hole on the side of the cassettes is matching with CS6/16/26(NS6/16) after installing the cassette. 2. Check if the reflection plate of the CS6/16/26(NS6/16) sensor is polluted in the cassette. 3. Check if CS6/16/26(NS6/16) sensor is polluted, cable is cut, or the connector is wrongly inserted. 4. Check logic related to CS6/16/26(NS6/16) of the Cash Dispenser Unit board.
20003	The reject box is full. This error occurs when the sum of rejected bills during the transaction and the rejected bills during the test is more than 50 after finally executing "Cassette Total"	Execute "Cassette Total" after moving cash from the reject box.
20004	The security door is open. The sensor detects that the security door is open"	1. Close the security door. 2. Check if the security door can be mechanically opened and closed by the door switch. 3. Check if cable between the door switch and the Control Electronics is cut. 4. Check if the connector is well connected to the Control Electronics.

		5. Check logic related to the door switch in the Control Electronics.
20005	Cash Dispenser Unit data (country, cassette, shutter) setting error Occurs during initialization.	1. Check Cash Dispenser Unit information. 2. Check battery back-up SRAM. 3. Check the battery.
20010	Receipt paper jam in the receipt printer. The jam detection sensor checks if there is paper before starting operation.	1. Remove paper jam and paper scraps. 2. Check the lever operation position in the sensor. 3. Check if the sensor is polluted. 4. Check if cable is cut or the connector is wrongly inserted. 5. Check logic related to the jam detection sensor of the Slip Printer board.
20011	TPH Headup Lever Open	1. Check Headup Lever
20012	The feed lever of the recipt printer is open. It was detected that the feed lever was open before ther receipt printer started to operate.	1. Close the feed lever. 2. Check if the micro switch of the feed lever normally functions. 3. Check if cable of the micro switch is cut in the feed lever and the connector is wrontly inserted. 4. Check logic related to the micro switch of the feed lever of the Slip Printer board.
20013	Receipt paper is empty. It was detected that receipt paper was empty before the receipt printer started to operate (when both the paper empty sensor and the paper sentting sensor are lights).	1. Fill paper. 2. Check the lever operation position in the sensor. 3. Check if cable is cut or the connector is wrongly inserted. 4. Check logic related to the paper empty and the paper setting sensors in the Slip Printer board.
20014	The thermal head of the receipt printer is overheated (before the receipt printer starts to operate).	1. Check and replace the thermal printer head. 2. Check logic related to the TPH of the PR board.
2YY15	Note has been detected on the return path	1. Remove the jammed note on the

	before the Cash Dispenser Unit starts to operate.	return path. 2. Check if the sensor is polluted. 3. Check if cable is cut or the connector is wrongly inserted. 4. Check logic related to the sensor in the Cash Dispenser Unit board.
90001	Card Read Error	1. Check Magnetic Card 2. Check Card Read module and cable connection
90002	Invalid IC card communication	1. Power Off/On 2. Check DIP MCR 3. Check cable connection
90003	DIP MCR latch failure	1. Power Off/On 2. Check DIP MCR (Clamp Lever) 3. Check cable connection
90004	DIP MCR unlatch failure	1. Power Off/On 2. Check DIP MCR (Clamp Lever) 3. Check cable connection
90005	DIP MCR power on failure	1. Power Off/On 2. Check DIP MCR 3. Check cable connection
90006	DIP MCR power off failure	1. Power Off/On 2. Check DIP MCR 3. Check cable connection
AXXX1	The feed lever of the receipt printer is open. It was detected that the feed lever was open while the receipt printer was operating.	1. Remove receipts and close the feed lever. 2. Check if the micro switch of the feed lever normally operates. 3. Check if cable of the micro switch of the feed lever is cut or the connector is wrongly inserted. 4. Check logic related to the micro switch of the feed lever in the Slip Printer board.
AXXX2	The thermal head of the receipt printer is overheated (before the receipt printer starts to operate).	1. Check and replace the terminal printer head. 2. Check logic related to TPH of the Slip

		Printer board.
A0803	Receipt Paper Jam	1. Remove jammed paper
AXXX3	Receipt paper jam A jam error occurred while the receipt printer operates.	1. Remove paper jam and paper scraps. 2. Check the lever operatio position in the sensor. 3. Check if the sensor is polluted. 4. Check if cable is cut or the connector is wrongly inserted. 5. Check logic related to jam detection in the Slip Printer board.
AXXX4	Receipt paper is empty. It was detected that paper was empty while the receipt printer was operating (when the paper empty sensor detected the light).	1. Set receipt paper. 2. Check the lever operation position in the sensor. 3. Check if cable is cut or the connector is wrongly inserted. 4. Check logic related to the paper empty sensorin the Slip Printer board.
AXXX5	"Receipt paper setting error Jam and miss-feeding are detected during receipt paper is loaded. -> This error occurs when the setting sensor detects a dark part.	1. Remove paper jam and reload. 2. Check the level oepration position in the jam sensor. 3. Check if cable is cut or the connector is wrongly inserted (in the jam sensor). 4. Check logic related to the jam sensor. 5. Check if the return motor is operating. 6. Check if cable is cut or a connector is wrongly inserted in the return motor, and check related logic.
AXXX6	During the test in the offline mode of the Slip Printer	Turn off/on Slip Printer.
AXXX7	Feed Lever Opened	Check feed lever and sensor pollution
AXXX8	Receipt paper cutting error. Receipt paper cutting failed.	1. Remove paper jam. 2. Check if the cutter properly rotates and the swtich normally functions. 3. Check if cable is cut or the connector is wrongly inserted. 4. Check logic rlated to the cutter of the Slip Printer board.

ADNXX	Receipt printer connection failure	1. Check if communication cable between the Control Electronics and the Slip Printer is cut or the connector is wrongly inserted. 2. Check communiation logic of the Control Electronics and the Slip Printer board. 3. Check if the CPU of the Slip Printer board is normally running. 4. Check if the power is normally supplied to the Slip Printer.
B0001	Expaded Flash Memory error	1. Replace CE mainboard
C001Y	Cash Dispenser Unit sensor cover 1 Ex) 'C0015' ; CS2(NS4), CS4A(NS3) covered CS4(NS3) Occurs before or after initialization and dispensing notes.	1. Check if ther are notes. If so, remove them. 2. Check if cable is cut or the connector is wrongly inserted. 3. Check logic related to the sensor of the Cash Dispenser Unit board.
C002Y	Cash Dispenser Unit sensor covered 2 Ex) 'C0023' ; CS1A, CS1B(NS2) covered CS13(NS4) Occurs before or after initialization and dispensing notes.	1. Check if there are notes. If so, remove them. 2. Check if cable is cut or the connector is wrongly inserted. 3. Check logic related to the sensor of the Cash Dispenser Unit board.
C0030	Cash Dispenser Unit main motor failure Occurs during initialization. Occurs before notes are dispensed.	1. Check the main motor of the Cash Dispenser Unit. 2. Check CS8(NS8) sensor. 3. Check if cable is cut or the connector is wrongly inserted. 4. Check logic relatd to the motor of the Cash Dispenser Unit board.
C0031	Gate solenoid echo error Occurs during initialization. Occurs before notes are dispensed.	1. Check if cable is cut or the connector is wrongly inserted in the gate solenoid. 2. Check the gate solenoid. 3. Check logic of the gate solenoid in the Cash Dispenser Unit board.
C0032	Outlet solenoid echo error Occurs during initialization.	1. Check if cable is cut or the connector is wrongly inserted in the outlet solenoid.

C0033	Occurs before notes are dispensed.	2. Check the outlet solenoid. 3. Check logic of the outlet solenoid in the Cash Dispenser Unit board.
C0034	Cash Dispenser Unit data (country, cassette, shutter) setting error Occurs during initialization.	1. Check Cash Dispenser Unit information. 2. Check battery back-up SRAM. 3. Check the battery.
C0035	Double detect module failure 1	1. Check if there are notes in the double detect module. 2. Check CS5(NS9) sensor. 3. Check the double detect slit. 4. Check the double detect lever. 5. Check logic related to double detect in the Cash Dispenser Unit board.
C0036	Double detect module failure 2	1. Check if there are notes in the double detect module. 2. Check CS5(NS9) sensor. 3. Check the double detect slit. 4. Check the double detect lever. 5. Check logic related to double detect in the Cash Dispenser Unit board.
C0037	CS13, CS2(NS4) covered befor initialization	1. Check jam and remove jammed notes 2. Check if cable is cut or the connector is wrongly inserted. 3. Check logic of CS13 and CS2(NS4) sensors in the Cash Dispenser Unit board.
C0038	Double detection sensor (CS5/NS9) covered Occurs while notes are being dispensed.	1. Check CS5(NS9) - pollution, cable cutting, wrong insertion of connectors, etc. 2. Check logic related to CS5(NS9) in the Cash Dispenser Unit board.
C0039	SRAM CHECK ERROR	1. Check the SRAM
	Gate operation detection sensor (CS3/NS7) Error Occurs during initialization. Occurs before notes are dispensed.	1. Check CS3(NS7) sensor poluttion. 2. Check the position of the gate solenoid. 3. Check if cable is cut or the connector is wrongly inserted.

		4. Check logic related to CS3(NS7) of the Cash Dispenser Unit board.
C003A	Request to display four or more notes.	1. Issue the command decrease the number of bills to four or less in the Control Electronics.
C003B	CS15A,15B(NS2) sensor covered Occurs during initialization.	1. Check jam and remove jammed notes. 2. Check CS15A and 15B(NS2) sensors ? pollution, cable cutting, wrong insertion of connectors, etc. 3. Check logic related to CS15(NS2) of the Cash Dispenser Unit board.
C0040	The cassette was removed while notes were dispensed.	1. Check if the cassette has been normally installed. 2. Check if CS7(NS11) can be completely pressed while the cassette is installed. 3. Check if cable is cut or a connector is wrongly installed in CS7(NS11) connector. 4. Check logic related to CS7(NS11) of the Cash Dispenser Unit board.
C0041	The machine tried to dispense notes five times or more.	1. Check the status of the note. 2. Check if the note type on the index set by the Control Electronics matches with the actual note type.
C0042	Note jam No. of requested notes > No. of notes passing CS13(NS4) Occurs after notes are dispensed.	1. Check whether there are notes in the return path. If so, remove them. 2. Check CS13(NS4) sensor. 3. Check logic related to CS13(NS4) of the Cash Dispenser Unit board.
C0043	Ten or more notes are rejected in one transaction. Occurs while notes are being dispensed.	1. Check status of the note.Check the two-sheet detection sensor. 2. Check if the note type on the index set by the Control Electronics matches with the actual note type.
C0044	Five consecutive rejections in one transaction. Occurs while notes are being dispensed.	1. Check the status of the note. 2. Check the two-sheet detection sensor.

		3. Check if the note type on the index set by the Control Electronics matches with the actual note type.
C0045		
	More note than requested were dispensed. No. of requested notes < No. of notes passing CS13(NS4) Occurs while notes are being dispensed.	1. Check the number of dispensed notes and the status of notes. 2. Check CS13(NS4). 3. Check logic related to CS13(NS4) of the Cash Dispenser Unit board.
C0046		
	Cash Dispenser Unit Hardware Failure	1. Check Main motor 2. Check Cash Dispnser Unit Main board
C0047		
	1 st Cassette Miss-feed	1. Check the note-setting status in the cassette. 2. Check CS1A and 1B(NS2) sensors.
C0048		
	Incorrect bill count	1. Check CS2,CS4 and CS13(NS3/NS4) 2. Check Cassette
C0049		
	Request to dispense 0 note. Command error in the Control Electronics control part	The Control Electronics revises and reissues the command.
C004A		
	Note jam CS1～CS4(NS2~NS3) : Note Passting Time >= 400ms CS4~CS13(NS3~NS4) : Note Passting Time >= 500ms	Check if there are notes in the return path. If so, remove them.
C004B	Occurs while notes are being dispensed.	
	Three or more consecutive rejection. Occurs while notes are being dispensed.	1. Check the status of the note. 2. Check if the note type on the index set by the Control Electronics matches with the actual note type.
C004C		
	The number of dispensed notes does not match. No. of notes passing CS13(NS4) <> No. of notes passing CS1(NS2).	1. Check the number of dispensed notes. 2. Check if the gate normally functions.
C004D	Occurs after notes are dispensed.	
	The cassette has not been installed before	1. Check if the cassette has been normally installed.

C004E	notes were dispensed. Occurs before notes are dispensed.	2. Check if CS7(NS11) is completely presed while the cassettes is installed. 3. Check if cable is cut or a connector is wrongly installed in CS7(NS11). 4. Check logic related to CS7(NS11) of the Cash Dispenser Unit board.
C004F	The number of dispensed notes does not match. Number of requested notes > Number of notes dispensed and reported to the Cash Dispenser Unit The Control Electronics checks after notes are dispensed.	1. Check the number of dispensed notes. 2. Perform a unit test on the Cash Dispenser Unit.
C0050	The number of dispensed notes does not match. No. of requested notes < No. of notes dispensed and reported to the Cash Dispenser Unit. The Control Electronics checks after notes are dispensed.	1. Check the number of dispensed notes. 2. Perform a test on the Cash Dispenser Unit.
C0051	The power is cut while notes are being dispensed. The Control Electronics checks.	1. Check the number of dispensed notes. 2. Check if there are notes in the return path. If so, remove them.
C0052	Request to dispense 150 or more notes. Control command error in the Control Electronics	1. The Control Electronics revises and reissues the command.
C0053	CS1A,1B(NS2) sensor covered. Occurs after notes are dispensed.	1. Check if there are notes in the return path. If so, remove them. 2. Check CS1A and 1B(NS2) sensors. 3. Check logic related to CS1A and 1B(NS2) of the Cash Dispenser Unit board.
C0054	CDU Double detect module failure	1. Check CS5(NS9) - pollution, cable cutting, wrong insertion of connectors, etc. 2. Check logic related to CS5(NS9) in the Cash Dispenser Unit board.

		1. Download new EP software
C0055	CDU Program Error	
		1. Check the status of the note.
	Outlet sensor (CS13/NS4) senses the	2. Check CS13(NS4).
	length of the note.	3. Check the main motor speed.
	Occurs while notes are being dispensed.	4. Check if the note type on the index
		set by the Control Electronics matches
		with the actual note type.
C0056		
		1. Check the gate solenoid.
	The gate position sensor (CS3/NS4)	2. Check CS13(NS4).
	detects an incorrect position while the	3. Check related logic of the Cash
	notes are being discharged.	Dispenser Unit board.
C0057		
		1. Set information of Cash Dispenser
	Cassette information is not properly set	Unit if error is not cleared after power
		Off/On
C0059		
		1. Set cassette again
	Cash cassette 2 removed prior to	2. Check CS7(NS11)
	dispenser	3. Ceck related logic of Cash Dispenser
		Unit board
C005A		
		1. Set cassette again
	Cash cassette 1 removed prior to	2. Check CS17(NS16)
	dispenser	3. Ceck related logic of Cash Dispenser
		Unit board
C005B		
		1. Check the note-setting status in the
	2 nd Cassette Miss-feed	cassette.
		2. Check CS15A and 15B(NS2) sensors
C005D		.
		1. Check CS5(NS9) - pollution, cable
	Double detect constantly	cutting, wrong insertion of connectors,
		etc.
		2. Check logic related to CS5(NS9) in
		the Cash Dispenser Unit board.
C005E		
		1. Download new EP software
C005F	Dispense command size check error	
		1. Check AP software
	Dispense command error	2. Download new EP software
C006Y		
		1. Check if related sensors are polluted.
	Cash Dispenser Unit sensor half-light	2. Check related logic of the Cash

C007Y	error1 EX) 'C0065' ; CS2, CS4A error CS2(NS4),CS4(NS3),CS13(NS4)	Dispenser Unit board. 1. Check if related sensors are polluted. 2. Check related logic of the Cash Dispenser Unit board.
C0081	Cash Dispenser Unit sensor half-light error2 Ex) 'C0073'; CS1A, CS1B(NS2) Error CS1(NS2),CS14(NS4)	1. Check the sensor
C0082	CS15AB is dark while dispensing	
C0083	Shutter open error (CS10) Occurs while the shutter is being opened.	1. Check if the shutter normally operates and the status of CS10 when the shutter is open. 2. Check CS10. 3. Check logic related to CS10 of the Cash Dispenser Unit board.
C0084	Stacker note detection sensor (CS9) covered. Occurs before initiazliation and notes are dispensed.	1. Check if there are notes in the stacker. If so, remove them. 2. Check CS9. 3. Check logic related to CS9 of the Cash Dispenser Unit board.
C00AB	Shutter close error (CS11) Occurs while the shutter is being closed.	1. Check if the shutter normally operates and status of CS22 when the shutter is closed. 2. Check CS22. 3. Check logic related to CS11 of the Cash Dispenser Unit board.
C00C7	Note has been detected on the path before the Cash Dispenser Unit initializing.	1. Remove the jammed note on the path. 2. Check if the sensor is polluted. 3. Check if cable is cut or the connector is wrongly inserted. 4. Check logic related to the sensor in the Cash Dispenser Unit board.
C00C8	CS12 is Dark while initializing or dispensing (NH2100T)	1. Check the sensor
C00C9	CS14 is Dark while initializing or dispensing (NH2100T)	1. Check the sensor 1. Check the sensor

C00D0	CS14 is Dark while initializing or dispensing (NH2100T)	1. Check the sensor
C00D1	CS13 ~ CS12 Sensor Timeout[Jam] (NH2100T)	1. Check the sensor
CDNXX	CS12 ~ CS14 Sensor Timeout[Jam] (NH2100T)	
	Cash Dispenser Unit connection failure Control Electronics<-> Cash Dispenser Unit communication error	1. Check if the communication cable between the Control Electronics and the Cash Dispenser Unit is cut and the connector is wrongly inserted. 2. Check logic related to communication between the Control Electronics and the Cash Dispenser Unit board. 3. Check if the CPU of the Cash Dispenser Unit board is normally running. 4. Check is power is supplied to the Cash Dispenser Unit.
C00E0		1. Check NS2
C00E1	NS2A, NS2B dark	1. Check NS4
D0001	NS4 dark	Check the modem controller and logic.
	Modem initializing error An error is received from the modem controller after Modem Initialize command is issued.	
D0002	EXPIRED CARD	Host declines by expired card
	Reversal transaction failure Cancellation of the transaction due to an error having occurred while notes were dispensed was notified to the host; however, the host did not receive this notification.	1. Check the Cash Dispenser Unit error and the numberof notes nornally dispensed. 2. Contact the host, and manually reverse. 3. Perform a unit test on the Cash Dispenser Unit to see if there is any error.
D0003	UNAUTHORIZED USAGE	Host declines by unauthorized usage.
D0004	PIN ERROR	Enter correct PIN

		Enter correct PIN
D0005	INVALID PIN	
		Check your card
D0006	BANK UNAVAILABLE	
		Check your card
D0007	CARD NOT SUPPORTED	
	INSUFFICIENT FUNDS	Check your balance and make transaction again
D0008		
		Check your transaction type
D0009	INELIGIBLE TRANSACTION	
		Check your available account
D0010	INELIGIBLE ACCOUNT	
		Make transaction later
D0011	DAILY LIMIT EXCEEDED	
		Make transaction again
D0012	UNABLE TO PROCESS	
		Enter smaller amount
D0013	AMOUNT TOO LARGE	
		Check your account
D0014	ACCOUNT CLOSED	
		Contact to your bank
D0015	PIN TRIES EXCEEDED	
		Make transaction later
D0016	UNABLE TO PROCESS	
		Make transaction later
	WITHDRAWAL LIMIT ALREADY REACHED	
D0017		
		Enter available amount
D0018	INVALID AMOUNT	
	EXTERNAL DECLINE	This ATM doesn't support your transaction because of bank's alliance
D0019		
		Make transaction later
D0020	SYSTEM ERROR	
		Contact card issuer
D0021	CONTACT CARD ISSUER	
		Contact to network company
D0022	ROUTING LOOKUP PROBLEM	
		Make transaction later
D0023	UNABLE TO PROCESS	
	TRANSACTION NOT SUPPORTED	The bank doesn't support this transaction type
D0012		
		The bank doesn't support this

D0013	Invalid Transaction	transaction type
D0014	Invalid Amount	Enter available amount
D0020	Invalid Card Number	Check your account
D0024	Surcharge screen should have been displayed	Make transaction later
D0039	Exceeds Issuer Withdrawal Limit	Make transaction later
D0051	No Credit Account	Check your available account
D0052	Insufficient Funds	Check your balance and make transaction again
D0053	No Checking Account	Check your available account
D0054	No Savings Account	Check your available account
D0055	Expire Card	Check your card
D0057	Incorrect Pin	Enter correct PIN
D0058	Transaction not Permitted – Card	Check your card
D0061	Transaction not Permitted – Terminal	Check your card
D0075	Exceeds Withdrawal Limit	Make transaction later
D0078	PIN Tries Exceeded	Contact to your bank
D0080	No Account	Check your available account
D0083	Invalid Date	Make transaction later
D0086	Can not Verify PIN	Enter correct PIN
D0091	Can not Verify PIN	Enter correct PIN
D0092	Bank Unavailable	Check your card
D0093	System Unavailable	Make transaction later
		Error in modem data. Contact to service

D0094	Transaction Serial No Miss-match	personnel
D0095	Record Format Miss-match. Check if a proper AP for the host has been loaded.	Error in modem data. Contact to service personnel
D0096	Routing Identification Miss-match. Check the routing Identification.	Error in modem data. Contact to service personnel
D0097	Terminal Identification Miss-match. Check the temrianl Identification.	Error in modem data. Contact to service personnel
D0098	Response Type Miss-match (Reversal)	Error in modem data. Contact to service personnel
D0099	Response Type Miss-match (Day Close)	Error in modem data. Contact to service personnel
D009A	Response Type Miss-match (Config)	Error in modem data. Contact to service personnel
D009B	Response Type Miss-match (Withdrawal,Balance,Transfer)	Error in modem data. Contact to service personnel
D009C	STXmissing	Error in modem data. Contact to service personnel
D009D	ETXmissing	Error in modem data. Contact to service personnel
D009E	FS missing (next to Response Code)	Error in modem data. Contact to service personnel
D009F	FS missing(next to Retrieval Reference Number)	Error in modem data. Contact to service personnel
D00A0	FS missing(next to System Trace Audit Number)	Error in modem data. Contact to service personnel
D00A1	FS missing (next to Account Balance)	Error in modem data. Contact to service personnel
D00A2	FS missing (next to Available Balance)	Error in modem data. Contact to service personnel
	FS missing (next to Surcharge Amount)	Error in modem data. Contact to service personnel

D00A3		Error in modem data. Contact to service personnel
D00A4	FS missing(next to Authorization Response Text)	Error in modem data. Contact to service personnel
D00A5	ETX position is not correct.	Error in modem data. Contact to service personnel
D00A6	FS missing (next to Total Cash Dispense Amount in the Day Close message)	Error in modem data. Contact to service personnel
D00A7	FS missing (nex to Total Non Cash Dispense Amount in the Day Close message)	Error in modem data. Contact to service personnel
D00A8	FS missing (next to Total Surcharge Amount in the Day Close message)	Error in modem data. Contact to service personnel
D00A9	FS missing (next to Surcharge Amount in the Config message)	Error in modem data. Contact to service personnel
D0111	ETX missing (in the Config message)	Reversal was declined by host
D0222	REVERSAL DECLINED	PIN change was declined by host
D0300	PIN CHANGE DECLINED	Check the modem controller and logic.
D1000	Modem is not responding No response from the modem controller within a certain time after issuance.	
D1100	No connection	Contact to your service personnel
D1200	ENQ was not received from the host.	Check the host.
D1300	Transmission error Failed to receive the whole data within 5 seconds after requesting the modem to send the data.	Check the modem controller and logic.
	NAK has been sent three times or more. Failed in receiving the data due to parity or LRC error. Therefore, sent NAK to the host and requested to send the data again	1. Check the host. 2. Check line noise. 3. Check the modem controller and logic.

D1500	three times or more.	
	Modem dial connection time-out (while dialing the modem)	1. Check if the telephone line is well connected. 2. Check the telephone number of the host and if the host is alive. 3. Check modem-related parameter setting. 4. Check the modem controller and logic.
D170X	Host not responding No response from the host for 60 seonds.	1. Check if the transaction card is valid. 2. Check the host.
D1800	No carrier No carrier during data transmission after the modem is connected.	1. Check the host. 2. Check if the transaction card is valid. 3. Check line noise. 4. Check the modem controller and logic.
D1900	No dial tone No dial tone while the modem is connected.	1. Check if the telephone line is well connected. 2. Check the status of the telephone line. 3. Check the modem controller and logic.
D2000	No Answer	1. Check the status of the telephone line. 2. Check the modem controller and logic.
D2100	Dial(Line) busy	1. Check the host and the telephone number of the host. 2. Check the modem controller and logic.
D2200	Response time-out (30 seconds) for Modem Initialize command before the modem was connected.	Check the modem controller and logic.
D3200	EOT was not received from the host.	1. Check the host.
	1. Dial connect time-out (60Sec) or dial connection error	1. Check the phone line or connector. 2. Contact the processor manufacturer.

E0001	2. Host response message time-out (60Sec)	
E0002		1. Check RMS-related settings.
E0003	RMS port failure	2. Check if the telephone line is connected and the status of the
E0004	RMS response time-out	telephone line.
	RMS modem failure	3. Check if the RMS host is alive.
	RMS no dial tone	4. Check the modem controller and logic.
		Note) These errors are not related to transaction. So, ATM doesn't send error to host
F0001		
		Set the number of bills.
F0002	The nuber of bills is not set.	
		Set the surcharge owner.
F0003	Surchage Owner is not set in Surcharge Enable mode.	
		Set the surcharge amount.
F0004	Surcharge Amount is not set in Surcharge Enable mode.	
		Set the refresh timer.
F0005	Refresh timer is not set in Advertisement Enable mode.	
		Set advertisement text.
F0006	Advertisement text is not set in Advertisement Enable mode.	
		Check the dispense limit, and set the limit again.
F0007	Dispense limite setting error Ex) Dispense Limit > Face value of the note type x 25	
		Check the note type, and set it again.
F0008	Note type setting error	
		Check the fast cash value, and set it again.
F0009	Fast cash setting error Ex) Fast cash value > Dispense limit	
		Check the master key, and set it again.
F000A	Master key index invalid : 0 <= MKEY Index <= 15	
		Inject the master key.
F000B	Master key empty	
		Set the host phone number.
F000C	Host phone number is not set.	
		Set the error retry timer.
F000D	The error retry timer is not set.	

		Set the RMS password.
F000E	RMS password is not set in RMS Enable mode.	
		Set the RMS phone number.
F000F	RMS phone number is not set in RMS Enable mode.	
		Set the terminal number.
F0010	The terminal number is not set.	
		Set the routing Identification.
F0011	Routing Identification is not set.	
		Master key Serial Number set
F0012	The master key serial number is not set.	
		Non-Cash Type set
F0014	Non-cash type text is not set.	
		Check the battery and the battery plug and replace the main board if error happens continuously.
	NVRAM failure	
IDN0X		1. Power Off/On
	DIP MCR connection failure	2. Check DIP MCR
		3. Check cable connection