7.1 Introduction

This chapter provides information on the maintenance mode2.

The maintenance mode2 provides the user with functions of displaying and initializing the life counters. It is used in the manufacturing process, adjustment, and maintenance.

The maintenance mode2 is implemented in the system firmware. All functions are available from the operation panel.

TIP

☞ *2.3 "Part Names and Functions" p.9*

7.2 Operations in Maintenance Mode2

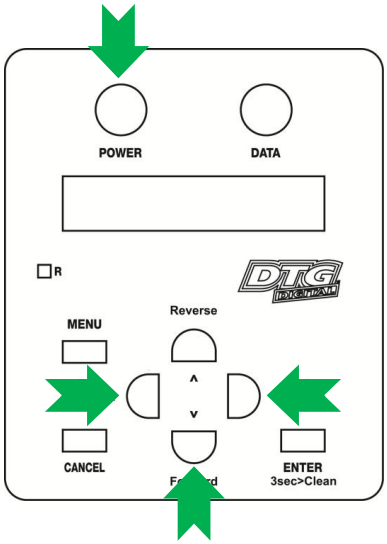
This section explains how to start up and operate the maintenance mode2 as well as provides the list of available diagnosis items.

7.2.1 Starting Up the Maintenance Mode2

To use the maintenance mode2, you must first call up the maintenance menu on the operation panel.

The maintenance menu is completely independent of the normal operation mode and setup menu display mode. To run the maintenance menu, follow the steps below.

1. If the system is in the operation mode or the setup menu mode, press the [Power] key to turn the power off.
2. While holding [Forward] key, [Back] key and [Next] key in the operation panel simultaneously, press [Power] key.



The maintenance mode2 will start running and display the maintenance menu.

7.2.2 Operating Maintenance Mode2

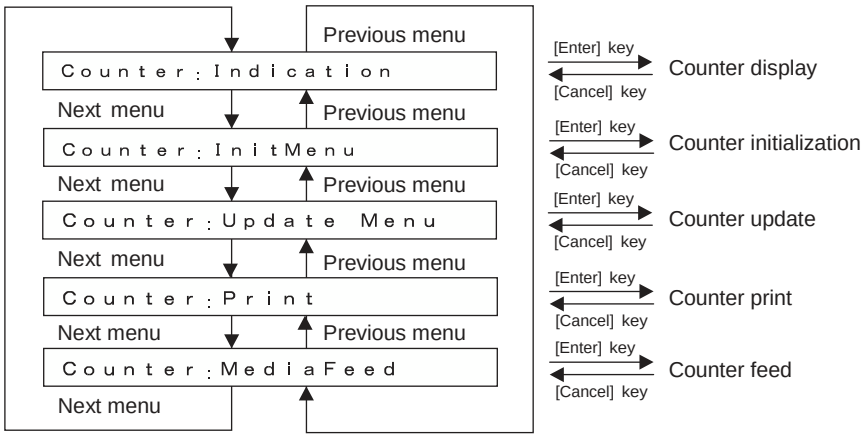
☞ *6.3.1 "Operating Self-Diagnosis Mode" p.140*

7.3 Maintenance Menu

The maintenance menu includes the following diagnosis items.

Diagnosis item	*Contents*	*Reference*
Counter: Indication	Displays the life counter	☞ *7.3.1 "Counter Display Menu" p.201*
Counter: InitMenu	Initializes the life counter	☞ *7.3.2 "Counter Initialization Menu" p.204*
Counter: UpdateMenu	Updates the life counter	☞ *7.3.3 "Counter Update Menu" p.206*
Counter: Print	Prints the life counter values	☞ *7.3.4 "Counter Print Menu" p.208*

TABLE 7-1 DIAGNOSIS ITEMS IN MAINTENANCE MENU



7.3.1 Counter Display Menu

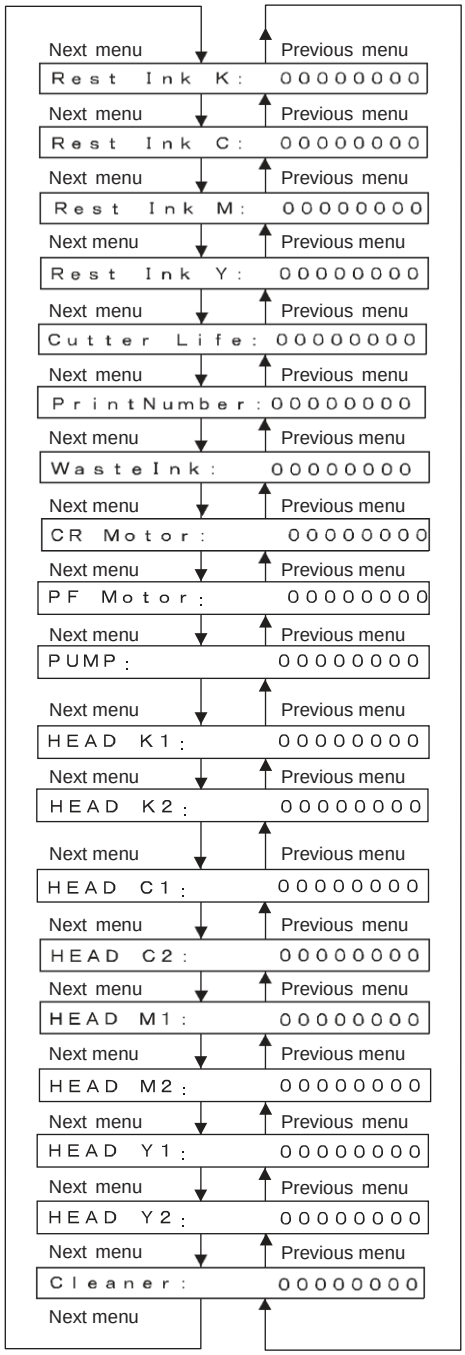
This menu displays the life counters. It consists of the following diagnosis items.

NOTE

All life counters are displayed in decimal number.

Diagnosis item	*Contents*
Rest Ink K	Displays the ink consumption (K) counter.
Rest Ink C	Displays the ink consumption (C) counter.
Rest Ink M	Displays the ink consumption (M) counter.
Rest Ink Y	Displays the ink consumption (Y) counter.
Cutter Life	Displays the life counter of the cutter.
Print Number	Displays the total number of printed copies.
Waste Ink	Displays the waste ink amount counter.
CR Motor	Displays the life counter of the CR motor.
PF Motor	Displays the life counter of the PF motor.
PUMP	Displays the life counter of the pump unit.
HEAD K1, K2	Displays the life counter of the head nozzle (K).
HEAD C1, C2	Displays the life counter of the head nozzle (C).
HEAD M1, M2	Displays the life counter of the head nozzle (M).
HEAD Y1, Y2	Displays the life counter of the head nozzle (Y).
Cleaner	Displays the life counter of the cleaning unit.

TABLE 7-2 DIAGNOSIS ITEMS IN COUNTER DISPLAY MENU



Ink consumption (K) counter

Ink consumption (C) counter

Ink consumption (M) counter

Ink consumption (Y) counter

Life counter of the cutter

Total number of printed copies

Waste ink amount counter

Life counter of the CR motor

Life counter of the PF motor

Life counter of the pump unit

Life counter of the head nozzle (K1)

Life counter of the head nozzle (K2)

Life counter of the head nozzle (C1)

Life counter of the head nozzle (C2)

Life counter of the head nozzle (M1)

Life counter of the head nozzle (M2)

Life counter of the head nozzle (Y1)

Life counter of the head nozzle (Y2)

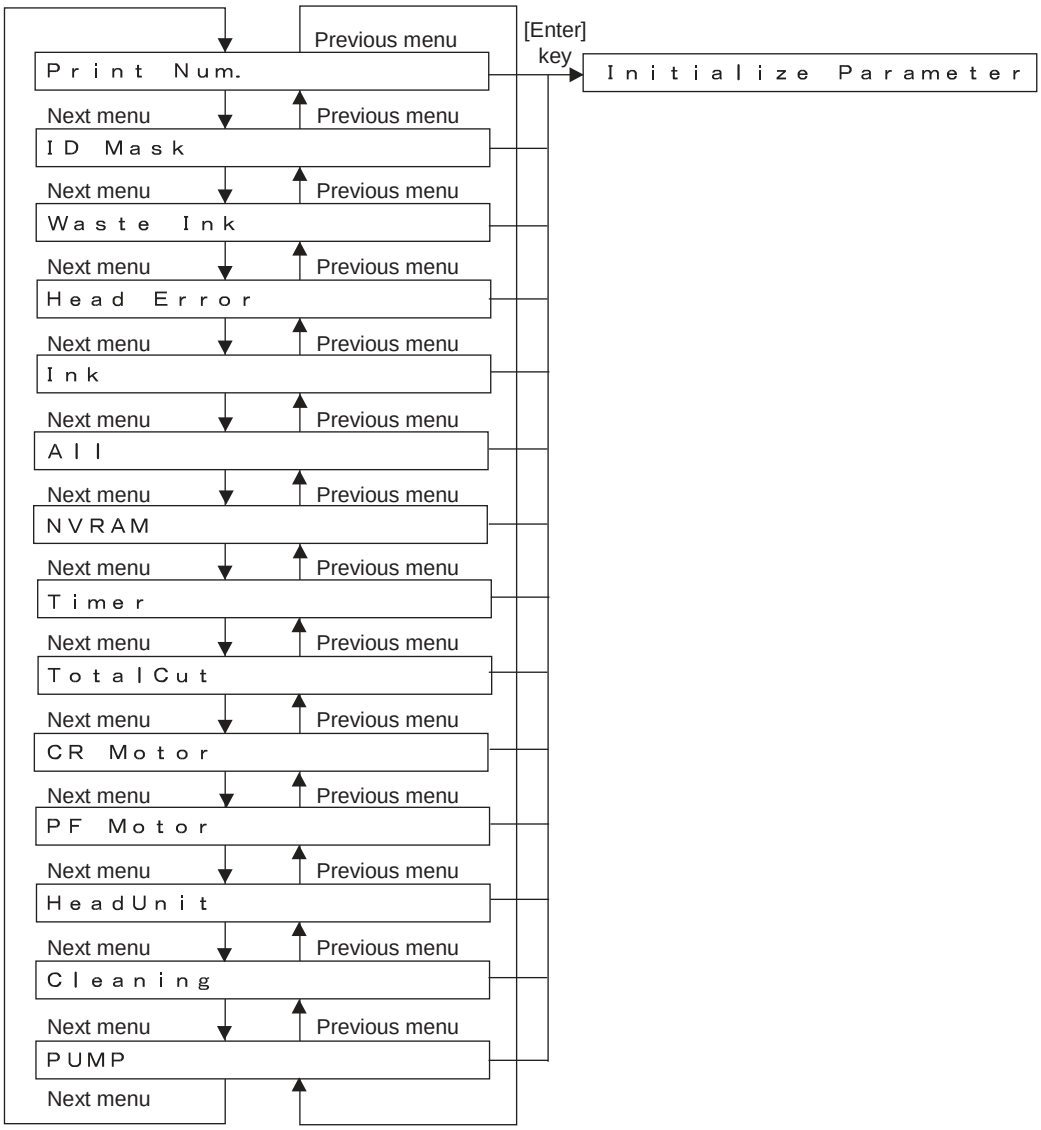
Life counter of the cleaner head

7.3.2 Counter Initialization Menu

This menu initializes the life counters. The parameters that can be initialized in this menu are as follows.

Diagnosis item	*Contents*
Print Num.	Initializes the total print counter.
ID Mask	Cancels the ink ID mask.
Waste Ink	Initializes the waste ink amount counter.
Head Error	Releases serious errors caused by head overcurrent.
Ink	Initializes the ink amount counter.
All	Initializes the life counter.
NVRAM	Initializes the NVRAM.
Timer	Initializes the timer.
Total Cut	Initializes the cutter cumulative counter.
CR Motor	Initializes the CR motor life counter.
PF Motor	Initializes the PF motor life counter.
Head Unit	Initializes the head nozzle life counter.
Cleaning	Initializes the life counter of the cleaning unit.
PUMP	Initializes the life counter of the pump unit.

TABLE 7-3 DIAGNOSIS ITEMS IN COUNTER INITIALIZATION MENU

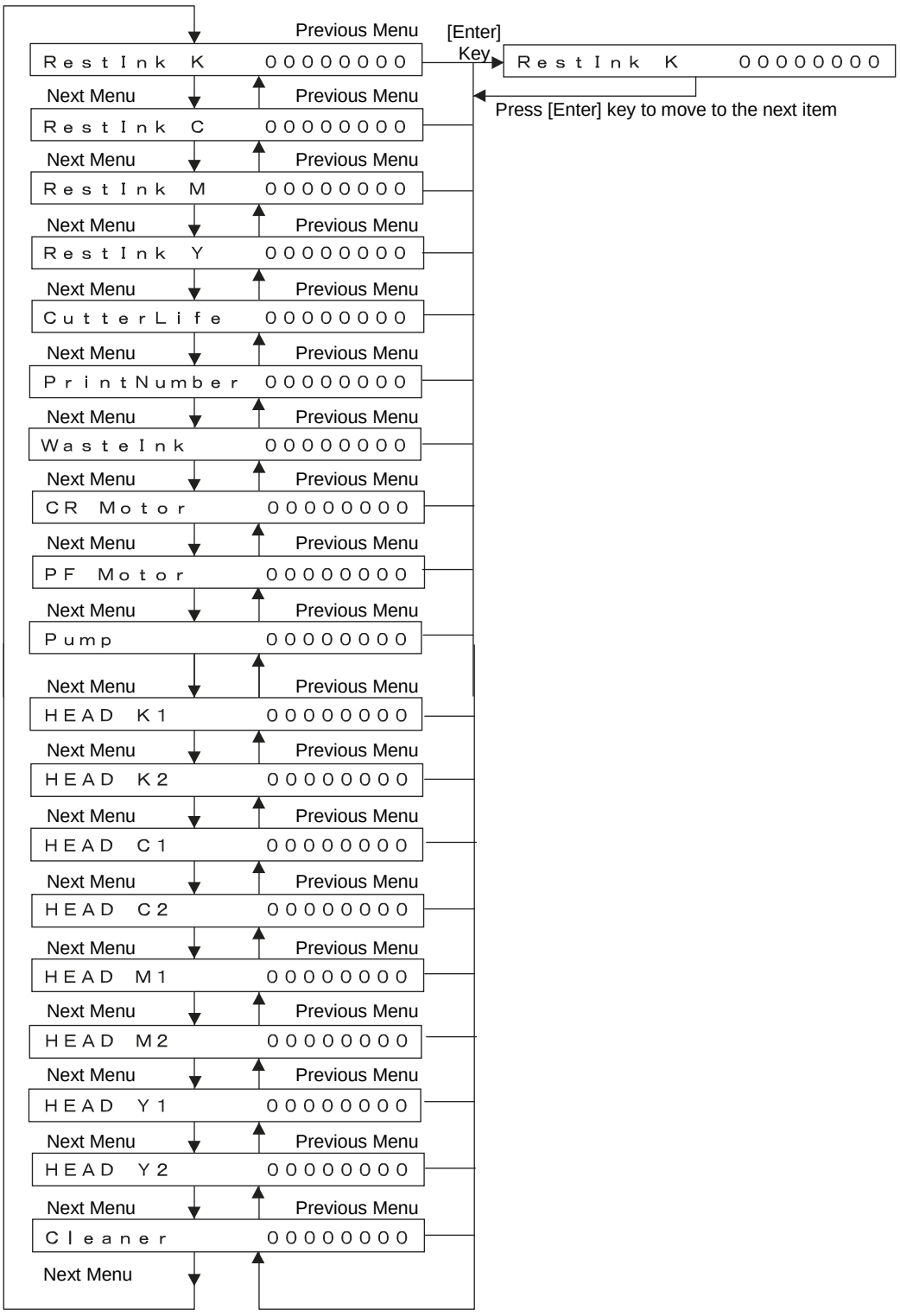

Previous menu
[Enter] key
Print Num.
Initialize Parameter
Next menu
Previous menu
ID Mask
Waste Ink
Head Error
Ink
All
NVRAM
Timer
TotalCut
CR Motor
PF Motor
HeadUnit
Cleaning
PUMP

7.3.3 Counter Update Menu

This menu updates the life counters. The parameters that can be updated in this menu are as follows.

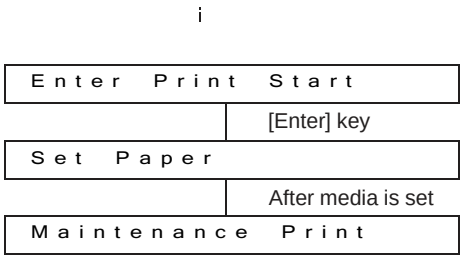
Diagnosis item	*Contents*
Ink Consumption K	Updates the ink consumption (K) counter.
Ink consumption C	Updates the ink consumption (C) counter
Ink Consumption M	Updates the ink consumption (M) counter.
Ink Consumption Y	Updates the ink consumption (Y) counter.
Cutter Life	Updates the cutter life counter values.
Print Num.	Updates the total print counter values
Waste Ink	Updates the waste ink amount counter values.
CR Motor	Updates the CR motor life counter values.
PF Motor	Updates the PF motor life counter values.
Pump	Updates the pump unit life counter values.
Head K1, K2	Updates the head unit (K) life counter.
Head C1, C2	Updates the head unit (C) life counter.
Head M1, M2	Updates the head unit (M) life counter.
Head Y1, Y2	Updates the head unit (Y) life counter.
Cleaner	Updates the cleaning unit life counter values.

TABLE 7-4 DIAGNOSIS ITEMS IN COUNTER UPDATE MENU


Previous Menu
[Enter] Key
Rest Ink K 000000000
Rest Ink K 000000000
Press [Enter] key to move to the next item
Next Menu
Previous Menu
Rest Ink C 000000000
Rest Ink M 000000000
Rest Ink Y 000000000
CutterLife 000000000
PrintNumber 000000000
WasteInk 000000000
CR Motor 000000000
PF Motor 000000000
Pump 000000000
HEAD K1 000000000
HEAD K2 000000000
HEAD C1 000000000
HEAD C2 000000000
HEAD M1 000000000
HEAD M2 000000000
HEAD Y1 000000000
HEAD Y2 000000000
Cleaner 000000000
Next Menu

7.3.4 Counter Print Menu

This menu prints the life counter values. The parameters that can be updated in this menu are as follows.



7.3.5 Media Feed Menu

NOTE

DO NOT USE.