Technical Publication
DB-1004R4

Data Book

HF Series Generators

REVISION HISTORY

REVISION	DATE	REASON FOR CHANGE
0	APR 1, 2001	First edition
1	FEB 10, 2003	Documentation update
2	JAN 25, 2005	Documentation update
3	NOV 2, 2004	Documentation update
4	OCT 26, 2006	Extended Memory Locations

This Document is the English original version, edited and supplied by the manufacturer.

The Revision state of this Document is indicated in the code number shown at the bottom of this page.

ADVISORY SYMBOLS

The following advisory symbols will be used throughout this manual. Their application and meaning are described below.

DANGERS ADVISE OF CONDITIONS OR SITUATIONS THAT IF NOT HEEDED OR AVOIDED WILL CAUSE SERIOUS PERSONAL INJURY OR DEATH.

ADVISE OF CONDITIONS OR SITUATIONS THAT IF NOT HEEDED OR AVOIDED COULD CAUSE SERIOUS PERSONAL INJURY, OR CATASTROPHIC DAMAGE OF EQUIPMENT OR DATA.

Advise of conditions or situations that if not heeded or avoided could cause personal injury or damage to equipment or data.

Note ☞

Alert readers to pertinent facts and conditions. Notes represent information that is important to know but which do not necessarily relate to possible injury or damage to equipment.

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SECTION 1 INTRODUCTION

This Data Book is the register of the Configuration and Calibration data of the Generator and the register of each Periodic Maintenance Service carried out. Keep this book always with the equipment for reference.

Note ☞ *Enter the data with a pencil in order to modify them later due to future changes.*

If the HT Controller Board or the ATP Console CPU Board are replaced, check specially that Extended Memory data have not been lost or modified with the Board change. Compare Extended Memory data displayed on the Console with the values noted in this document.

Also, make some exposures using different techniques and Focal Spot and check that mA stations are calibrated correctly, if not perform Calibration procedures.

Note ☞ *Verify that "Configuration Control Sheet" and "Final Test Results" pages from factory have been included with the equipment.*

1.1 INSTALLATION DATA

Enter the following information.

HOSPITAL			
INSTALLED AND TESTED BY		**DATE**	

1.2 MAINTENANCE HISTORY

Enter the following information after each data modification in this book or Periodic Maintenance Service.

DATE	PERFORMED BY	SERVICE NOTES

SECTION 2 DATA TABLES

Table 2-1
3024SW1 - ATP Console CPU Board

3024SW1 POSITION	OPEN (OFF)	CLOSED (ON)
1		
2		
3		
4		

Table 2-2
3024SW2 - ATP Console CPU Board

3024SW2 POSITION	OPEN (OFF)	CLOSED (ON)
1		
2		
3		
4		

Table 2-3
3024SW3 and 3024SW4 - ATP Console CPU Board

Note ☞ *Dip switch 3024SW3 and 3024SW4 is not used for configuration but all their switches must be set in **"Off"** position.*

Table 2-4
3000SW2 - HT Controller Board

3000SW2 POSITION	OPEN (OFF)	CLOSED (ON)
1		
2		
3		
4		
5		
6		
7		
8		

Table 2-5
Workstations

WORKSTATION PUSH-BUTTONS *(Draw the push-buttons or combinations in the cells)*		VALUE ON DISPLAYS				AVAILABLE AEC AREAS
		kV (Tube)	mAs (Device-WM)	mA (AEC-IC)	ms (kV Tracking) (option)	
WS1						
WS2						
WS3						
WS4						
WS5						
WS6						
WS7						
WS8						
WS9						
WS10						

Table 2-6
Jumpers in other Generator Boards

GENERATOR BOARDS	JUMPERS POSITION	
HT CONTROLLER	JP1 and JP2	
	JP3, JP5 and JP6	
	JP4	
FILAMENT CONTROL	JP1	
INTERFACE CONTROL	W1	
	W2	
	W3 to W10	
ATP CONSOLE CPU	JP1, JP2 and JP3	
	JP4	
	JP5	
	JP6	
	Connector J8 configured for RS232 so: JP9, JP10 and JP11 in “A”. JP7, JP8, JP21 and JP22 do not matter jumpers position	
	Connector J8 configured for RS422 so: JP7, JP8, JP9, JP10 and JP11 in “B”. JP21 and JP22 do not affect jumpers position	
	JP12	
	JP13	
	JP14	
	JP15, JP16, JP17 and JP18	
	JP19	

Table 2-7
AEC Configuration

JUMPERS POSITION	
AEC Control Board	A3012-_____
JP1	
JP2	
JP3	
JP4	

JUMPERS POSITION	
AEC Adaptation Board	A3263-03
JP3, JP4, JP7, JP8	
JP1, JP2, JP5, JP6	
JP13, JP14, JP15, JP16	
JP9 (IC1)	
JP10 (IC2)	
JP11 (IC3)	
JP12 (IC4)	

Table 2-8
Fluoro Configuration

OPERATION MODE		
FIXED RATE PULSED FLUORO	**VARIABLE RATE PULSED FLUORO**	**ABC**

JUMPERS IN FLUORO CPU BOARD (A3213-XX)	**INSERTED**	**REMOVED**
W1		
W2	Always inserted (installed)	

JUMPERS IN ATP CONSOLE CPU BOARD (A3024-XX)	
JP4	Always in “B” position – Camera

JUMPERS POSITION	
RF Adaptation Board	A3514-_____
JP1, JP3, JP4, JP8, JP9, JP10, JP12, JP13, JP14	
JP2	
JP5	
JP6	
JP7	
JP11	
JP15	
JP16	
JP17	
JP18	
JP19	
JP20	
JP21	
JP22	
JP23	
JP24	

Table 2-9
Extended Memory Locations

MEMORY LOCATION	VALUE		MEMORY LOCATION	VALUE
E01			E17	
E02			E18	
E03			E19	
E04			E20	
E05			E21	
E06			E22	
E07			E23	
E08			E24	
E09			E25	
E10			E26	
E11			E27	
E12			E28	
E13			E29	
E14			E30	
E15			E31	
E16			E32	

MEMORY LOCATION *(only for Capacitor Discharge Generator)*	VALUE
E67	
E68	
E69	

Table 2-10
Rotor Acceleration Time Configuration

OPERATION MODE	3000SW2-2	
	OPEN (OFF)	CLOSED (ON)
Rotor Speed	Low Speed	High Speed

TUBE-1 ROTOR ACCELERATION TIME AND FILAMENT SETTING TIME	3000SW2-7		3000SW2-8	
	OPEN (OFF)	CLOSED (ON)	OPEN (OFF)	CLOSED (ON)
_____ seconds				

TUBE-2 ROTOR ACCELERATION TIME AND FILAMENT SETTING TIME	3000SW2-5		3000SW2-6	
	OPEN (OFF)	CLOSED (ON)	OPEN (OFF)	CLOSED (ON)
_____ seconds				

FLUORO ROTOR HOLD-OVER TIME	3000SW2-4	
	OPEN (OFF)	CLOSED (ON)
Status: _____		

Table 2-11
LV-DRAC Configuration

3243SW1		3243SW2		3243SW3		3243SW4	
1		1		1		1	
2		2		2		2	
3		3		3		3	
4		4		4		4	
5		5		5		5	
6		6		6		6	
7		7		7		7	
8		8		8		8	

Table 2-12
mA Calibration Numbers

TUBE-1				
mA STATION	FILAMENT CURRENT NUMBERS AT kVp BREAK POINT			
	40	50	80	120
10				
12.5				
16				
20				
25				
32				
40				
50				
64 (or 63 or 65)				
80				
100				
125				
160				
200				
250				
320				
400				
500				
640 (or 630 or 650)				
800				
1000				

Note.- The mA station values depend on the Generator model. Some models do not contain all the mA stations listed above.

Table 2-12 (Cont.)
mA Calibration Numbers

TUBE-2				
mA STATION	FILAMENT CURRENT NUMBERS AT kVp BREAK POINT			
	40	50	80	120
10				
12.5				
16				
20				
25				
32				
40				
50				
64 (or 63 or 65)				
80				
100				
125				
160				
200				
250				
320				
400				
500				
640 (or 630 or 650)				
800				
1000				

Note.- The mA station values depend on the Generator model. Some models do not contain all the mA stations listed above.

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