Honeywell

History Module Service

HM13-501

Total Plant

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10.2.4 Circuit Board Replacement

CAUTION

CAUTION—All circuit boards used in the History Module contain electrostatically sensitive devices. Use a personnel grounding strap and grounded work surfaces/equipment. Store and transport the parts only in electrostatically safe containers.

Correct circuit board pinning

When replacing an SPC circuit board that was removed from the History Module, be sure the address pinning (TS1) on the replacement board matches the removed board. Do not attempt to duplicate the revision pinning (TS2).

Smart Peripheral Controller (SPC) circuit board

Verify the selection of the pinning jumpers on the TS1 module on the Smart Peripheral Controller (SPC) circuit board (13) as illustrated in Figure 10-2. The revision pinning on the TS2 module has been determined in the factory and must not be changed in the field.

Inspect the Smart Peripheral Controller circuit board for the proper firmware revision. It must be revision "**G**," or a later revision. The two firmware EPROMs are located approximately at coordinates 18F and 18G as illustrated in Figure 10-2.

If replacement is required, note the orientation and location of the EPROMs
0928-101 and 0928-102 before removal. Be sure to wear an ESD wriststrap that is properly grounded. Remove the EPROMs and replace them. Change the firmware revision on the circuit board.

Slide the SPC circuit board (13), as illustrated in Figure 10-1, into slot 3 of the module chassis until it is fully mated with the backpanel connectors.

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LCN address configuration

The LCN node address can be selected on either the K2LCN (K4LCN) circuit board or the LCN I/O (CLCN A/B) board. Configuring the LCN node address on the K2LCN (K4LCN) circuit board is preferred for consistency, but selecting the address on either circuit board is acceptable. However, all the jumpers on the circuit board that is not being used for address selection must be removed, or if the board uses configuration switches as a substitute for the jumpers, the switches must be placed in their zero (0) position.

K2LCN circuit board LCN node address selection

The early production and current production K2LCN circuit boards (11), as illustrated in Figures 10-3 and 10-4, have an LCN node address pinning module at coordinate 9C and 7A, respectively. Pin the K2LCN board for the appropriate LCN node address. All jumpers on the LCN I/O circuit board must be removed if the LCN address is selected on the K2LCN circuit board. If a CLCN A/B is present, its configuration switches must be in their zero (0) position.

The early production and current production K4LCN circuit boards (11), as illustrated in Figures 10-5 and 10-6, have an LCN node address pinning module, TS2, at locations 21E and 7A, respectively. Pin the K4LCN board for the appropriate LCN node address. All jumpers on the LCN I/O circuit board must be removed if the LCN address is selected on the K4LCN circuit board. If a CLCN A/B board is present, its configuration switches must be in their zero (0) position.

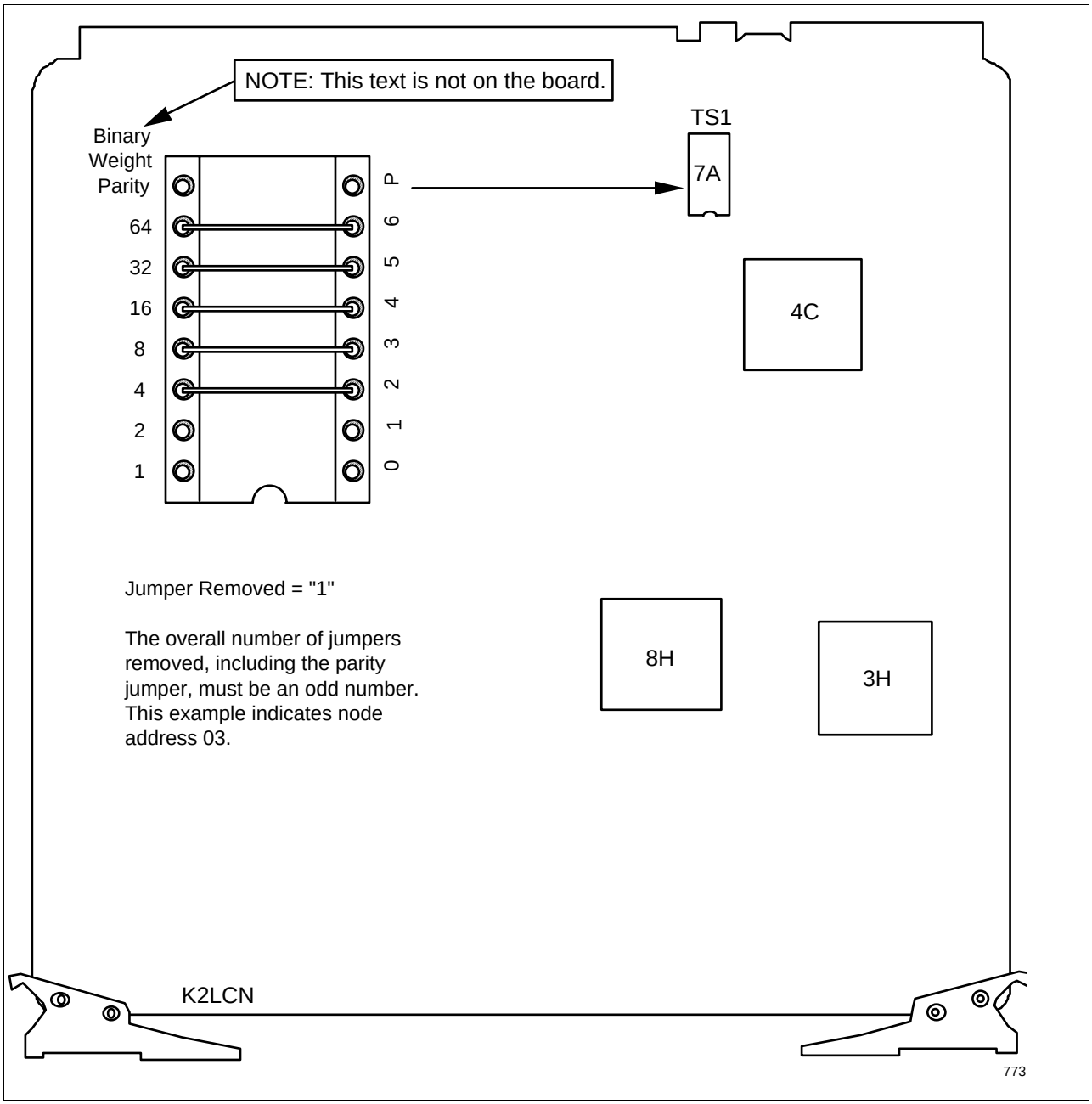
As illustrated in Figure 10-1, slide the K2LCN or K4LCN circuit board (11) into slot 1 until it is fully mated with the backpanel connectors after selecting the appropriate LCN node address.

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K4LCN (51402755-100) LCN address selection

Figure 10-6 illustrates LCN node address selection on the K4LCN board, assembly 51402755-100. The pinning block, TS1, is located at coordinate 7A on the board. The absence of a jumper is a binary "1." Parity must be an odd number.

Figure 10-6 K4LCN Board (51402755-100) LCN Node Address Selection



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WDA type History Module parts list

Table 13-2 lists part numbers for the Winchester Disk Assembly type History Module at the service part level.

Table 13-2 WDA Type Drive History Module Parts List

Item	Description	Part Number
	Five-Slot Module Assembly (w/o circuit boards, power supply, fan assy) *	51195499-100
* 3	Fan Assembly with fans for Five-Slot Module	51400646-100
* 2	Enhanced Power Supply for Five-Slot Module	51195066-100
	Power Cord, 125 Vac, for Five-Slot Module	51303508-100
	Power Cord, 250 Vac, for Five-Slot Module	51303508-200
1	Five-Slot Module Cover Assembly	51400918-100
* 4	WDA Chassis with Winchester Drive Interface (WDI) circuit board	51401930-100
5/6	Winchester Drive Tray (power cable, power switch, and printed flex-circuit)	51401929-300
*	210 Megabyte Disk Drive kit (includes installation instructions)	51196269-100
*	445 Megabyte Disk Drive kit (includes installation instructions)	51196351-100
*	875 Megabyte Disk Drive kit (includes installation instructions)	51196720-100
*	1.8 Gigabyte Disk Drive kit (includes installation instructions)	51196897-100
*	Partioned WDA Winchbester Drive Tray	51403366-100
*	Dual Logical Drive replacement for 1.8 GB disk drive	51191579-100
*	Dual Logical Drive replacement for 875 MB disk drive	51191579-200
* 11	K2LCN-2 Circuit Board (with 2 megawords of memory)	51402615-200
* 11	K2LCN-4 Circuit Board (with 4 megawords of memory)	51402615-400
* 11	K4LCN Circuit Board	51401946-100
* 11	4-Megaword Memory Board for K4LCN Board (51401946-100)	51201645-400
* 11	K4LCN Circuit Board	51402755-100
* 11	4-Megaword Memory Board for K4LCN Board (51402755-100)	51201795-400
* 7	LCN I/O Circuit Board	51107403-100
* 7	CLCN A/B Circuit Board – CE Compliant	51305072-100
* 12	Smart Peripheral Controller (SPC) Circuit Board	51401052-100

* ORU Level Replacement Item

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