FIELD ENGINEERING GUIDE / 01

Honeywell 51402755-100 K4LCN-4

K4LCN Circuit Board

Installed role	Work objective
K4LCN circuit board used in the WDA-type History Module with LCN node-address selection at TS1.	Preserve exact identity, interfaces and as-left configuration through controlled replacement.
Primary technical record	**Release decision**
Honeywell History Module Service HM13-501, December 2002, circuit-board replacement and parts-list sections	Return the equipment only after every product-specific acceptance point passes.

FUNCTIONAL POSITION

LCN ADDRESS	K4LCN	4 MW BOARD	HISTORY MODULE
TS1 binary weighting	Processor, memory and LCN path	51201795-400	WDA service role

PRODUCT-SPECIFIC CONTROLS

LCN address control	Odd-parity rule
Node identity is set through the TS1 pinning block at coordinate 7A.	The removed-jumper count, including the parity jumper, must be odd.
History Module service role	**Dedicated memory relationship**
The board is listed in the WDA-type History Module service parts set.	The parts list pairs this K4LCN board with 4-Megaword memory board 51201795-400.

SERVICE PACKAGE

As-found evidence	Interface record	Test evidence	As-left evidence
Identity, location, status indications and physical condition.	Mating hardware, terminal or jumper pattern, and companion item identity.	Applied condition, observed response and diagnostic result.	Final configuration, reviewer and release status.

TECHNICAL READINESS / 02

Exact-model data and pre-work controls

Use these values to prepare the work package and prevent configuration drift.

Parameter	Verified value
Board designation	K4LCN
Circuit-board part number	51402755-100
LCN address block	TS1
TS1 board coordinate	7A
Jumper-removed value	Binary 1
Address parity	Odd
Binary weights	64, 32, 16, 8, 4, 2, 1
Manual example address	03
Module position	Slot 1
Associated 4-Megaword memory board	51201795-400

INSTALLED-USE REVIEW

History Module board renewal

Supports controlled replacement of the exact K4LCN circuit board in a WDA-type History Module.

LCN node-address restoration

Reproduces the installed node identity using TS1 and the odd-parity rule.

Memory-board pairing review

Checks the exact 4-Megaword memory-board identity for the 51402755-100 K4LCN assembly.

LCN interface maintenance

Keeps address selection on one chosen board while clearing the unused addressing path.

PRE-WORK CHECKS

1

Use a grounded wrist strap, grounded work surface and ESD-safe container.

2

Confirm both 51402755-100 and the K4LCN-4 identifier before work.

3

Record the existing TS1 jumper pattern before disturbing the board.

4

Keep the total removed-jumper count, including parity, odd.

SOURCE CONTROL

Honeywell History Module Service HM13-501, December 2002, circuit-board replacement and parts-list sections

INSTALLATION SEQUENCE / 03

Controlled field sequence

Stop at any identity, wiring, address, interface or safe-state conflict.

1	Identify the WDA-type History Module and record its current LCN node address.
2	Photograph or transcribe every TS1 jumper and the parity position.
3	Apply the required ESD controls and place the module in its maintenance condition.
4	Remove the existing board and inspect slot 1 and its backpanel connectors.
5	Confirm 51402755-100 and the associated 51201795-400 memory board.
6	Set TS1 so each removed jumper represents binary 1 and the total removed count is odd.
7	Clear the address-selection jumpers or switches on the board not used for LCN addressing.
8	Seat the K4LCN board, restore the module and prove the intended LCN identity.

HOLD POINTS

Identity conflict The full model or part-number marking differs.	**Interface uncertainty** A terminal, jumper, slot, connector or companion board cannot be matched.
Physical defect A contact, board edge, terminal or retaining feature is damaged.	**Response mismatch** The first controlled test does not produce the expected product-specific result.

INSTALLATION PROOF

Part identity K4LCN board is 51402755-100	**Memory identity** 4-Megaword board is 51201795-400
Address block TS1 is at coordinate 7A	**Binary interpretation** Removed jumper is treated as binary 1

COMMISSIONING / 04

Acceptance matrix

Test the installed product in a deliberate sequence and retain each result.

Acceptance point	Required observation
Part identity	K4LCN board is 51402755-100
Memory identity	4-Megaword board is 51201795-400
Address block	TS1 is at coordinate 7A
Binary interpretation	Removed jumper is treated as binary 1
Parity	Total removed jumpers including parity is odd
Alternate address path	Unused LCN-address board is cleared or set to zero
Mechanical seating	Board is fully mated in slot 1
Network result	History Module returns on the assigned LCN node

FAULT-ISOLATION ORDER

IDENTITY	INTERFACE	CONFIGURATION	STIMULUS	RESULT
Exact product and position	Terminal, jumper or I/O path	Address, channel or operating mode	Known field condition	Status and final response

ENGINEERING DECISIONS

Which binary weights are used by Honeywell 51402755-100 K4LCN-4?

The node-address positions use weights 64, 32, 16, 8, 4, 2 and 1.

Where is Honeywell 51402755-100 K4LCN-4 installed in the module chassis?

The K4LCN circuit board is installed in slot 1 after its node address is selected.

Which memory board is listed with Honeywell 51402755-100 K4LCN-4?

The associated 4-Megaword memory board is part number 51201795-400.

How should the unused LCN address-selection path be handled for Honeywell 51402755-100 K4LCN-4?

Remove all jumpers from the unused address board or set its configuration switches to zero before commissioning.

RETEST RULE

After correcting any discrepancy, repeat the affected product test and every dependent station, network, load or channel check before release.

DIAGNOSTICS & HANDOVER / 05

Engineering decisions and closeout

Use the product-specific answers below during review and final handover.

Which circuit-board part number identifies Honeywell 51402755-100 K4LCN-4?

The K4LCN circuit-board part number is 51402755-100.

Where is the LCN address block on Honeywell 51402755-100 K4LCN-4?

The TS1 pinning block is located at coordinate 7A on the board.

What does a removed jumper mean on Honeywell 51402755-100 K4LCN-4?

A removed TS1 jumper represents binary 1.

Which parity rule applies to Honeywell 51402755-100 K4LCN-4?

The total number of removed jumpers, including the parity jumper, must be odd.

Which binary weights are used by Honeywell 51402755-100 K4LCN-4?

The node-address positions use weights 64, 32, 16, 8, 4, 2 and 1.

Where is Honeywell 51402755-100 K4LCN-4 installed in the module chassis?

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RELATED HONEYWELL PRODUCTS

Honeywell CC-IP0101 51410056-175	PROFIBUS gateway module listing	View Honeywell CC-IP0101 51410056-175
Honeywell FC-CPCHAS-0001	Safety controller chassis listing	View Honeywell FC-CPCHAS-0001
Honeywell FC-USI-0001 V1.0	Universal safety-interface listing	View Honeywell FC-USI-0001 V1.0
Honeywell FC-USI-0001 V1.3	Universal safety-interface revision listing	View Honeywell FC-USI-0001 V1.3

SOURCE

Honeywell History Module Service HM13-501, December 2002, circuit-board replacement and parts-list sections

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