

A86L-0001-0235

CNC MDI keyboard PCB assembly

It transfers local operator key inputs from the CNC panel to the installed control interface.

PRODUCT SNAPSHOT

BRAND

FANUC

FAMILY

FANUC CNC operator-panel interface

PART

A86L-0001-0235

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PRODUCT OVERVIEW

It transfers local operator key inputs from the CNC panel to the installed control interface.

- 1 Forms the local MDI keyboard input surface for the installed CNC panel
- 2 Uses a dedicated two-connector keyboard printed-circuit assembly
- 3 Combines navigation, edit and machine-operation key groups on one board
- 4 Supports controlled key-by-key functional verification after replacement

SYSTEM COMPONENTS

installed FANUC CNC operator panel

matching front key overlay and legend plate

documented keyboard cable harnesses

approved CNC maintenance and diagnostic screen

TECHNICAL NOTE

Record both board markings and every cable position before removal, isolate CNC control power and use ESD controls. After installation, verify each required MDI key in a controlled maintenance screen before returning the machine to automatic operation.

TECHNICAL DATA

PARAMETER	VALUE
Part number	A86L-0001-0235
Component type	CNC MDI keyboard PCB assembly
Keyboard board identifier	N860-3755-T901

PARAMETER	VALUE
Board revision	02A
Assembly marking	N86D-3755-R001/02
Country marking	MADE IN JAPAN

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
IC693CMM321	Related GE Fanuc CNC control product	View IC693CMM321 page
IC695CPE305	Related GE Fanuc CNC control product	View IC695CPE305 page
IC695CHS016	Related GE Fanuc CNC control product	View IC695CHS016 page
IC695ALG600	Related GE Fanuc CNC control product	View IC695ALG600 page
IC694MDL742	Related GE Fanuc CNC control product	View IC694MDL742 page
IC693MDL645	Related GE Fanuc CNC control product	View IC693MDL645 page
IC693PWR321	Related GE Fanuc CNC control product	View IC693PWR321 page
IC694MDL930	Related GE Fanuc CNC control product	View IC694MDL930 page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

CNC MDI command-entry restoration

Forms the local MDI keyboard input surface for the installed CNC panel

Operator-panel navigation key service

Uses a dedicated two-connector keyboard printed-circuit assembly

Program-edit keyboard maintenance

Combines navigation, edit and machine-operation key groups on one board

Post-replacement key-response verification

Supports controlled key-by-key functional verification after replacement

PRODUCT PRECAUTIONS

- 1 Verify the complete A86L-0001-0235 part marking together with the N860-3755-T901 02A keyboard-board identifier before panel work.
- 2 Place the CNC and connected machine in the approved maintenance state before opening the operator panel.
- 3 Isolate CNC control power and prove the required safe state before disconnecting either keyboard-board connector.
- 4 Photograph and label both cable orientations so that each harness returns to its original connector position.
- 5 Use ESD controls and handle the PCB only by its edges; protect switch caps, solder joints and exposed contacts.
- 6 Confirm that the replacement front key overlay and legends correspond to the installed machine functions.
- 7 Reseat both connectors evenly, inspect for displaced contacts and restore panel hardware without stressing the PCB.
- 8 Test every required MDI, edit, navigation and machine-function key on a controlled screen before automatic operation.

ENGINEER FAQ

Q1 Does A86L-0001-0235 match installed FANUC CNC operator panel in a CNC MDI command-entry restoration installation?

Verify the complete A86L-0001-0235 marking, the documented FANUC CNC operator-panel interface position and the installed installed FANUC CNC operator panel before fitting the assembly.

Q3 Which FANUC CNC operator-panel interface records should be captured before removing A86L-0001-0235?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with A86L-0001-0235 before disconnection.

Q5 Which matching front key overlay and legend plate condition should be checked when A86L-0001-0235 reports an abnormal state?

Check the matching front key overlay and legend plate supply, seating and connection first, then compare channel diagnostics with the recorded A86L-0001-0235 baseline.

Q7 What maintenance evidence is required after A86L-0001-0235 is used for Program-edit keyboard maintenance?

Retain the nameplate record, corrective action, final diagnostics and a controlled program-edit keyboard maintenance functional-test result for A86L-0001-0235.

Q2 How should A86L-0001-0235 be wired when it must forms the local mdi keyboard input surface for the installed cnc panel?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for A86L-0001-0235; then continuity-test the affected path.

Q4 What controlled test confirms that A86L-0001-0235 can uses a dedicated two-connector keyboard printed-circuit assembly?

Apply the approved field or simulated stimulus, observe the FANUC CNC operator-panel interface indication and confirm the intended response without bypassing the normal interlocks.

Q6 Can A86L-0001-0235 be moved directly into Operator-panel navigation key service without validating approved CNC maintenance and diagnostic screen?

No. Confirm the approved CNC maintenance and diagnostic screen, revision, connection scheme and FANUC CNC operator-panel interface configuration before transferring A86L-0001-0235 to that duty.

Q8 How should A86L-0001-0235 be returned to service in Post-replacement key-response verification?

Restore power under control, verify combines navigation, edit and machine-operation key groups on one board, exercise the intended signal path and release A86L-0001-0235 only after the FANUC CNC operator-panel interface remains in its approved operating state.

SOURCE Physical unit markings and FANUC CNC Parts Support | A86L-0001-0235 / N860-3755-T901 02A / N86D-3755-R001/02

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