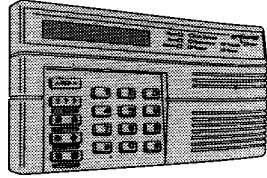# KD-90

ALPHANUMERIC CONTROL STATION

Installation Instructions

Linear
A NORTEK COMPANY

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(UL)

DESCRIPTION

The KD-90 control station is a digital keypad designed for use with Linear's CP-90 Supervised Wireless Control/Communicator. The keypad allows the user to arm, disarm and interrogate the security system. The installer can also program the CP-90 from the KD-90 keypad.

Connection to the CP-90 is made through a 4-wire cable. Multiple keypads can be connected to the CP-90 without having to homerun each of the keypad's wires. The KD-90 keypad downlights, display backlights and display contrast levels are adjustable.

The keypad has three 24-hour fire, medical and police buttons for emergency activation.

The keypad sounds a chirp as each key is pressed and audible alarm signals and sirens sound from the built-in speaker.
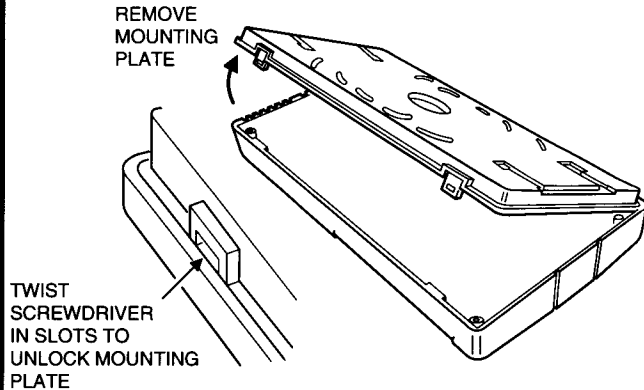
FEATURES

* Displays system status and information on a two-line alphanumeric display.
* Display can be customized by installer for each installation.
* Display contrast levels are adjustable.
* Display can be customized by installer for each installation.
* Shows sensor and system condition on eight LED displays.
* Sounds system tones, beeps and local alarm sirens.
* Twelve keys for arming, disarming and changing security levels.
* STATUS and BYPASS keys for interrogating sensors and special arming.
* Three 24-hour activation keys for fire, medical, and police emergency alarms.
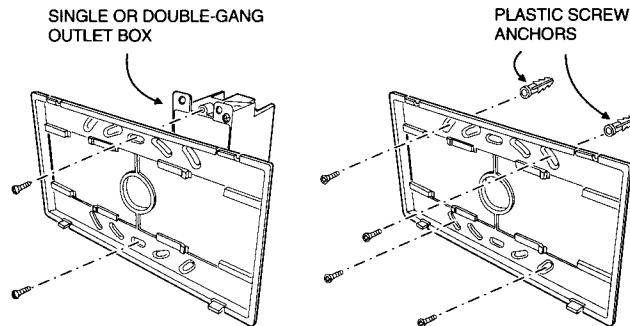* Built-in tamper switch to signal keypad removal from its mounting plate.

IMPORTANT!

To trigger a 24-hour emergency zone with the KD-90, the desired emergency key (fire, medical, police) must be held down for at least four seconds.
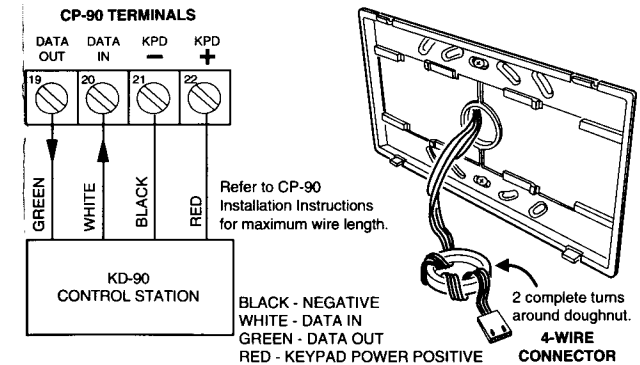

STEP 1   Remove mounting plate. Twist a screwdriver into slots on bottom edge of case to remove the mounting plate.

REMOVE MOUNTING PLATE
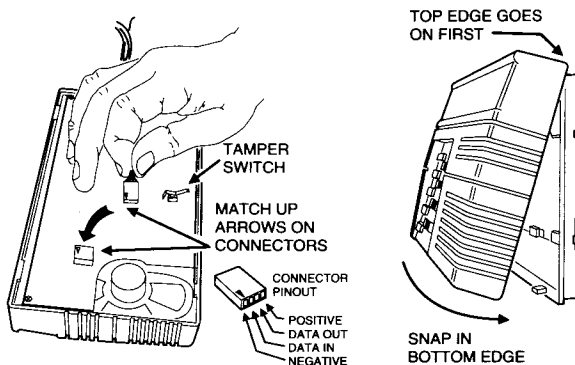
TWIST SCREWDRIVER IN SLOTS TO UNLOCK MOUNTING PLATE

STEP 2   Install mounting plate. Attach the mounting plate to a single or double gang electrical box, or use the four screws and plastic anchors to mount the plate directly to wallboard.

SINGLE OR DOUBLE-GANG OUTLET BOX
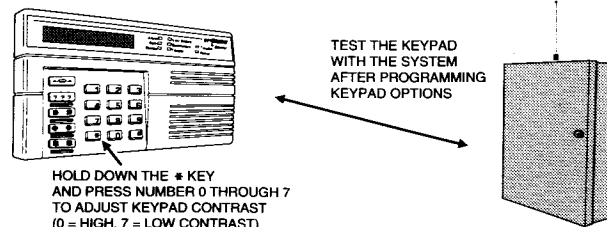
PLASTIC SCREW ANCHORS

STEP 3   Connect wiring to CP-90. Run 22 AWG or larger four-conductor wire between the keypad location and the CP-90 control panel. Loop the wire two times through the ferrite doughnut as shown. Multiple keypads do not have to be homerun wired.

CP-90 TERMINALS

DATA OUT	DATA IN	KPD −	KPD +
19	20	21	22
GREEN	WHITE	BLACK	RED

Refer to CP-90 Installation Instructions for maximum wire length.

KD-90 CONTROL STATION

BLACK - NEGATIVE
WHITE - DATA IN
GREEN - DATA OUT
RED - KEYPAD POWER POSITIVE

2 complete turns around doughnut.

4-WIRE CONNECTOR

STEP 4   Plug in cable connector and mount keypad. Insert the cable plug into the keyed connector on the back of the KD-90. Hook the keypad onto the mounting plate, starting at the top edge first, then pressing the bottom in until it snaps tight.

TOP EDGE GOES ON FIRST

TAMPER SWITCH

MATCH UP ARROWS ON CONNECTORS

CONNECTOR PINOUT
POSITIVE
DATA OUT
DATA IN
NEGATIVE

SNAP IN BOTTOM EDGE

STEP 5   Program keypad and test. If this is the primary keypad for the system, when the CP-90 is powered up **the keypad will be accessory #65.** If this is an additional keypad to the primary, it must be installed into the CP-90's memory. Referring to the CP-90 Programming Instructions, set the keypad lighting levels. Adjust the display contrast by holding down * and pressing 0-7 (0 = high, 7 = low contrast). Test the keypad by arming and disarming the system to each of the security levels. To test the emergency buttons, press and hold each button for four seconds.

HOLD DOWN THE * KEY AND PRESS NUMBER 0 THROUGH 7 TO ADJUST KEYPAD CONTRAST (0 = HIGH, 7 = LOW CONTRAST)

TEST THE KEYPAD WITH THE SYSTEM AFTER PROGRAMMING KEYPAD OPTIONS

LINEAR LIMITED WARRANTY

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