

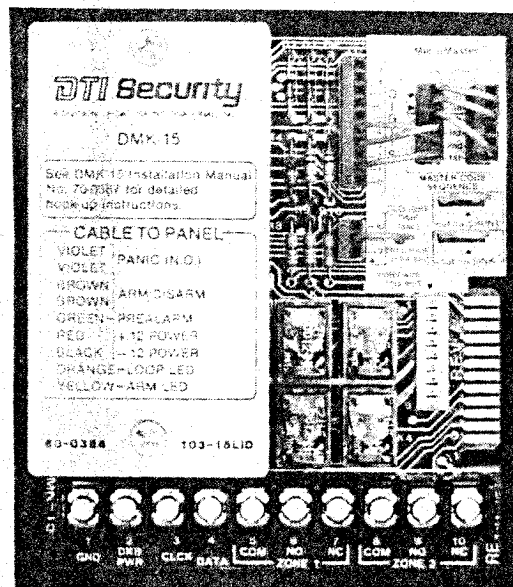


1034 Kiel Court, Sunnyvale, California 94086

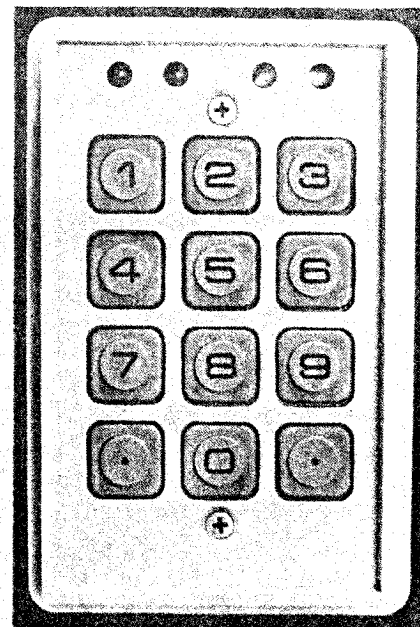
Phone (408) 744-1200 • Outside California Phone (800) 538-8488 • Telex 172032 DTI SUVL

Operation And Installation Manual

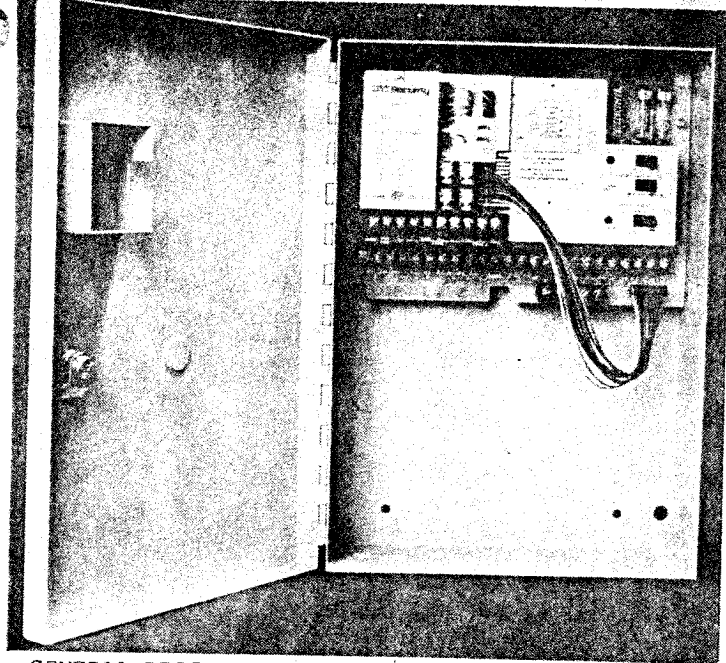
DCU-15 PROGRAMMABLE DIGITAL REMOTE



DMK-15 MicroMaster™



DKB-15 Remote



GENERAL DESCRIPTION

The DCU-15 is a programmable digital remote control station for use in arming and disarming of alarm panels or for use as a sophisticated electronic switch. A DCU-15 package consists of one DMK-15 MicroMaster™ and one DKB-15 Remote Keypad. As many as 4 individual DKB-15 remote keypads can be used with each DMK-15 MicroMaster™ depending on the control panel utilized.

Utilizing the latest state-of-the-art microcomputer technology, the DCU-15 System offers user versatility with programmable master and auxiliary codes, selectable closure times, zone shunting, prealarm beeper, dual panic buttons and many more valuable features. In the tradition of all DTI Security products, priority has been given to reliability, appearance and user convenience.

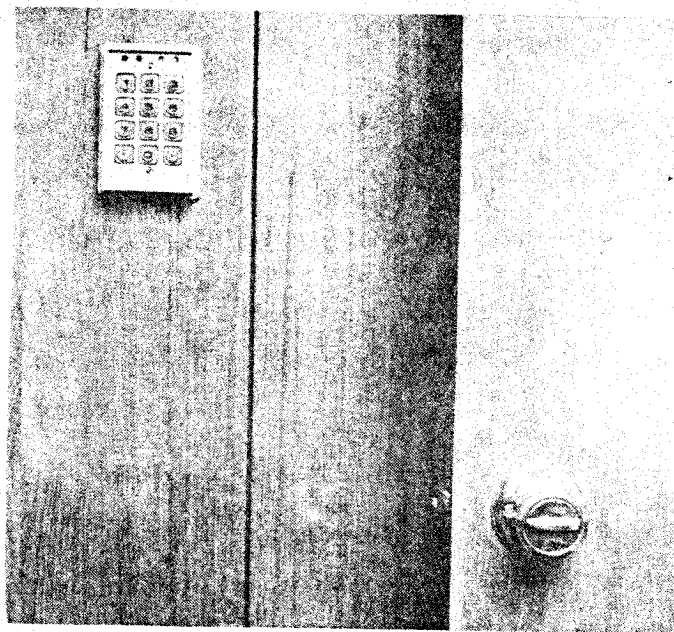
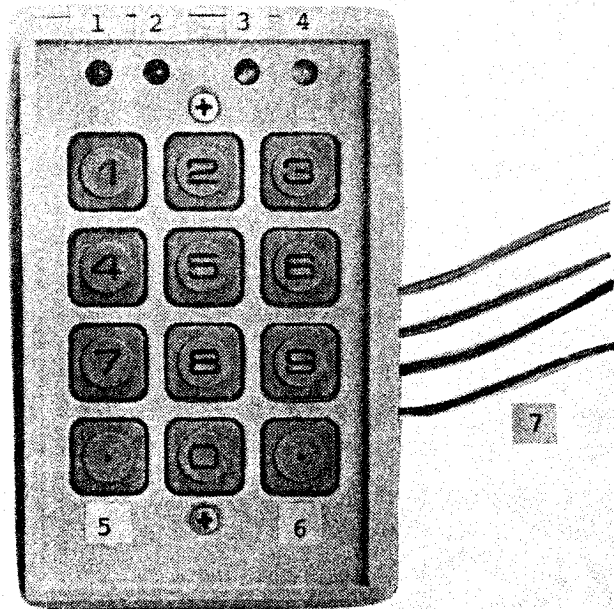


Figure #1

* CAUTION** READ INSTRUCTIONS CAREFULLY BEFORE INSTALLING UNIT

ELEMENTS OF THE SYSTEM

Figure #2



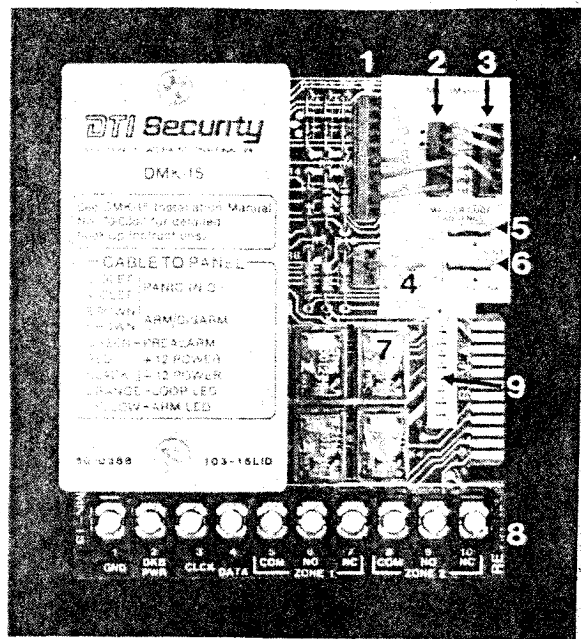
DKB-15 Remote

DKB-15 Remote

1. Arm/Disarm Indicator (Red LED)
LED is lit when system is "ARMED".
2. Loop Status Indicator (Green LED)
Depending on the control panel to which the DCU-15 is connected, the LED may either be "ON" or "OFF" when loops are in a safe condition.
3. Zone 1 Enabled Indicator (Amber LED)
LED will be lit when zone is included in the armed mode.
4. Zone 2 Enabled Indicator (Amber LED)
LED will be lit when zone is included in the armed mode.
- 5 & 6. Dual Panic Buttons
Depressing both buttons simultaneously causes an instant alarm.
7. Four Wire Hook Up
Eleven functions are available with only a four wire connection.

ELEMENTS OF THE SYSTEM

Figure #3



DMK-15 MicroMaster™

1. Code Digit Selection Sockets
2. Code Sequence Sockets
3. "Same As" Sockets
4. Adjustable Closure Time Jumper
5. Shunt Jumper
6. Sink Jumper (Active High/intact)
(Active Low/cut)
7. Relays
8. Terminal Block
9. Square post connector cable for quick hookup to DTI DSS-451/452 control panels.

DMK-15 MicroMaster™

INSTALLATION

It is important that before you install the DCU-15, you first REMOVE ALL POWER TO THE CONTROL PANEL. Connect the DCU-15 as described below. Do not plug in any of the programming jumpers until the "Self Test" cycle is complete. Each unit will perform a "Self Test" program immediately after power hookup is completed. (A mounting template is provided in the back of this manual to assist you in installation, Fig. #4) Care should be taken during installation so as not to damage the diodes and resistors located next to the programming selection jumpers.

DKB-15 Remote Keypad Wiring Connections

The DKB-15 remote keypad is connected to the DMK-15 MicroMaster™ using only 4 wires. The Black wire from the remote connects to terminal #1 (Ground) on the DMK-15. The Red wire connects to terminal #2 which is the positive power for the remotes. The Green wire connects to terminal #3. The White data stream wire connects to terminal #4 to carry digital data to and from the remotes. Up to 4 keypads can be used with each master. If multi remotes are installed, they must be connected in parallel. (Please

refer to figure #5 for wiring example and figure #6 for suggested wire sizes for lengthy runs.) For running lines alongside AC power lines or electrically noisy lines, it may be necessary to use shielded four conductor wire.

Figure #4

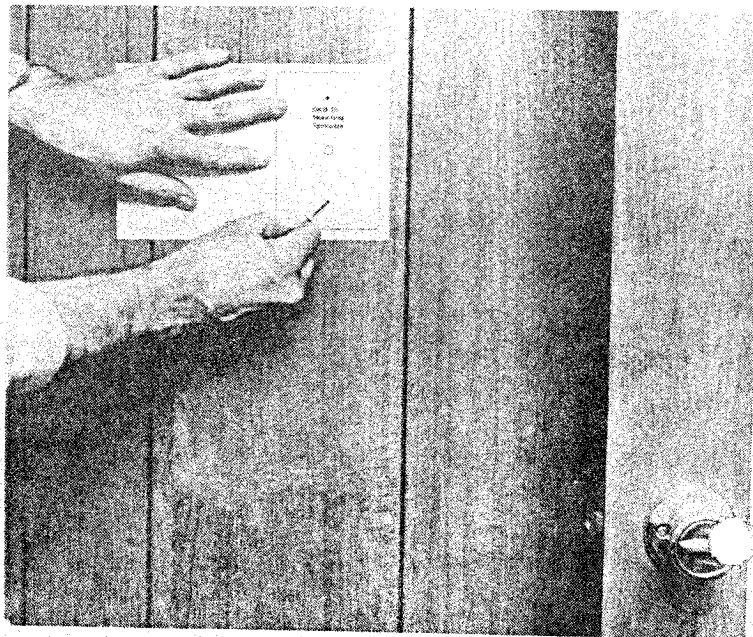


Figure #5

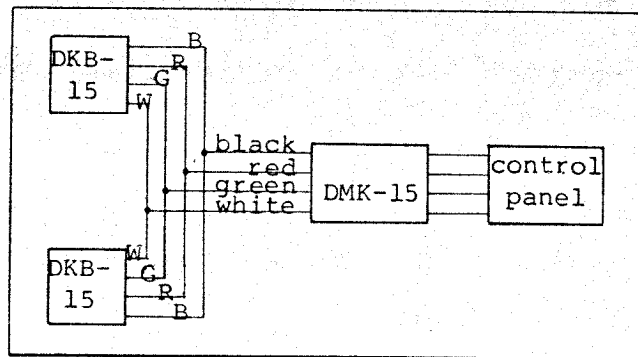


FIGURE #6

NUMBER OF REMOTES

LENGTH OF
RUN IN
FEET

	1 remote	2 remotes	3 remotes	4 remotes
50'	22 gauge	22 gauge	22 gauge	22 gauge
100'	22 gauge	22 gauge	22 gauge	20 gauge
200'	22 gauge	20 gauge	18 gauge	16 gauge
300'	22 gauge	18 gauge	16 gauge	16 gauge

SUGGESTED WIRE SIZE

Figure #7

DMK-15 MicroMaster™ Wiring Connections

Each DMK-15 MicroMaster™ includes a color coded interconnect cable for hookup to a control panel. If the DTI panel, Model 451/452 is being used, the cable directly plugs into the unit providing a very quick method of connection. Plug one end of the cable to the right of the relays. Ensure that the violet wire connects to the top as indicated. For control panels other than the DSS-451/452, cut the the other end of the cable and then strip the wires for hookup to the panel's own terminal system. The Black wire connects to panel Ground or "-" point. The Red wire connects to the panel Positive 12V power supply (DC only). The Green wire connects to the Prealarm output. The Yellow wire connects to the Armed Status output. The Orange wire connects to the Loop Status output. The two Brown wires connect to the Arm/Disarm terminal input. The two Violet wires go to the N.O. Panic input. (Figure #7 illustrates DMK-15 installed in a DSS-451/452 DTI control panel.)

Please refer to Figures #8 through 19 for detailed hookup information on specific control panels.

REMOTE ALARM CONTROL HOOK-UP INFORMATION FOR THE DCU-15 SERIES

Figure #8

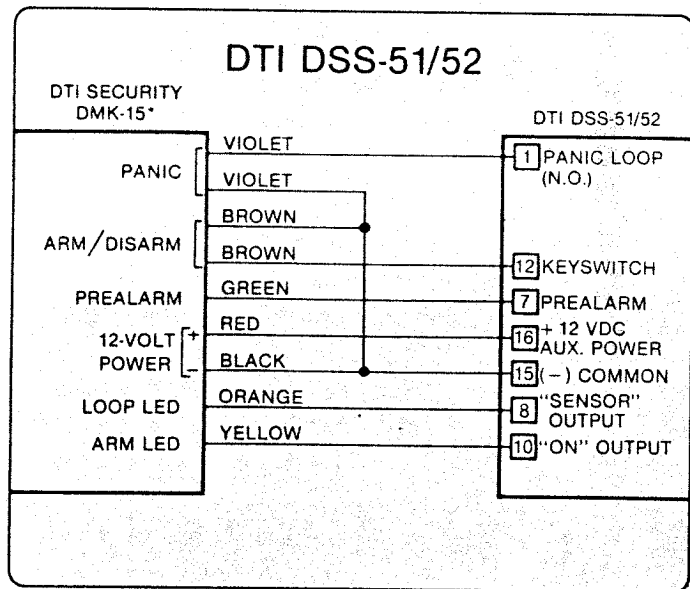


Figure #9

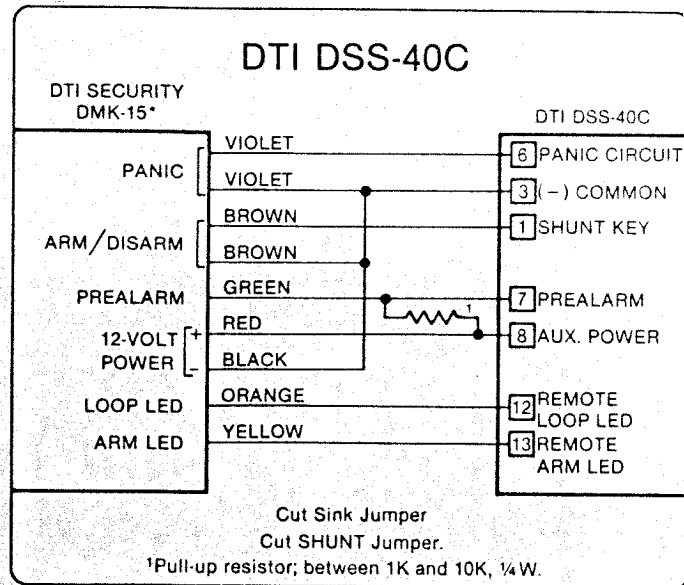
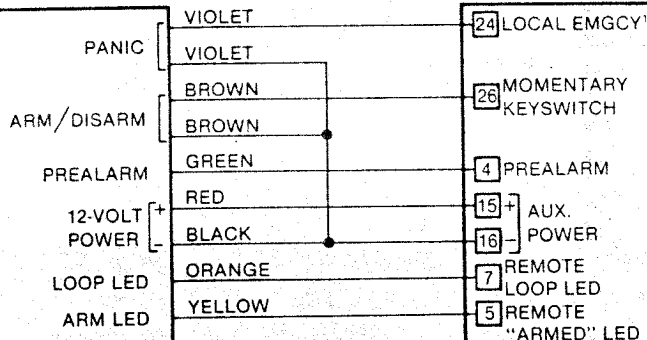


Figure #10

DTI DSS-772

DTI SECURITY
DMK-15*

DTI DSS-772



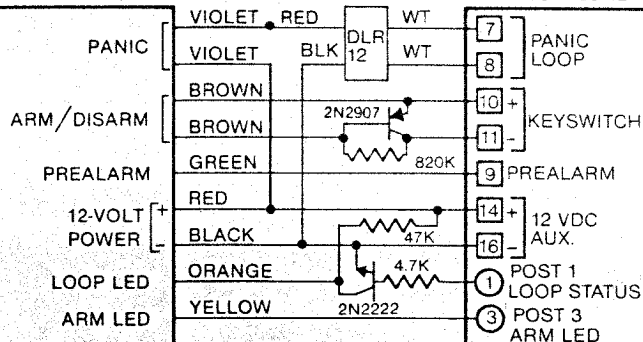
¹Alternate: Connect to Terminal 23 for SILENT EMERGENCY.

Figure #11

ADEMCO 1023-12

DTI SECURITY
DMK-15*

ADEMCO 1023-12



Cut SHUNT jumper

Note: This panel does not have fail-safe arming.

Figure #12

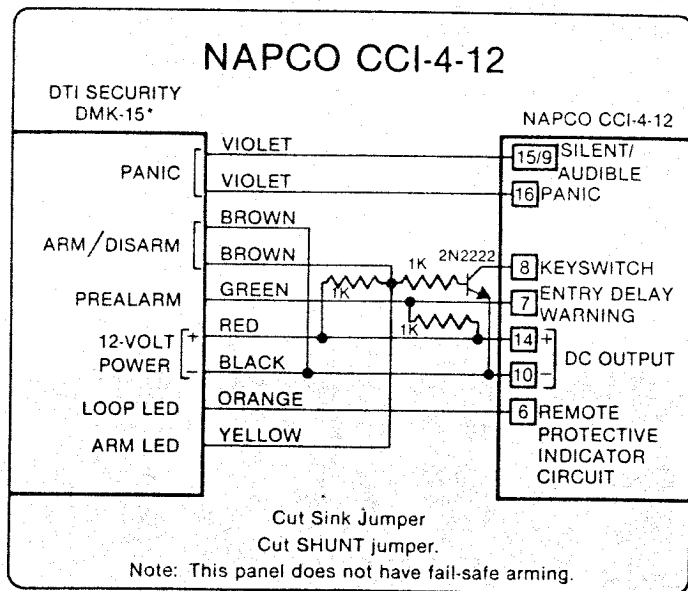
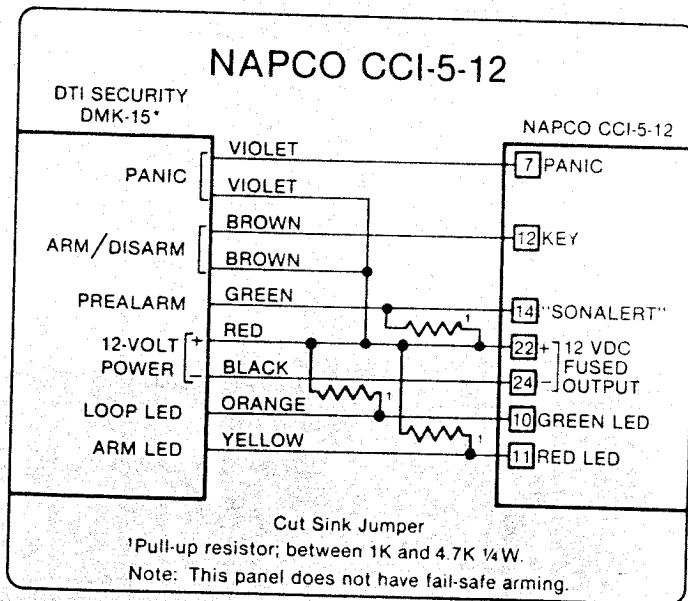


Figure #13



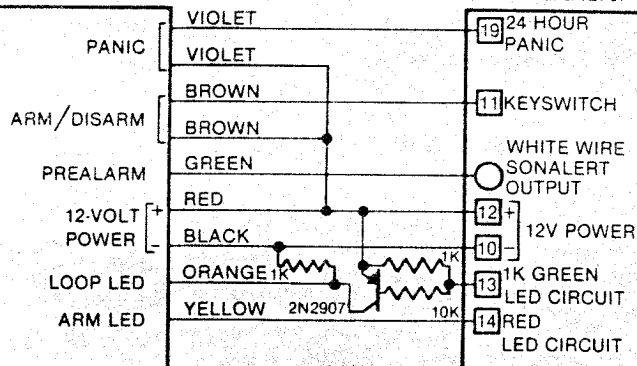
Note: zones must be used on delay circuit only.

Figure #14

FBI 1270/1270F

DTI SECURITY
DMK-15*

FBI 1270/1270F



Note: This panel does not have fail-safe arming.

Figure #15

FBI 1290

DTI SECURITY
DMK-15*

FBI 1290

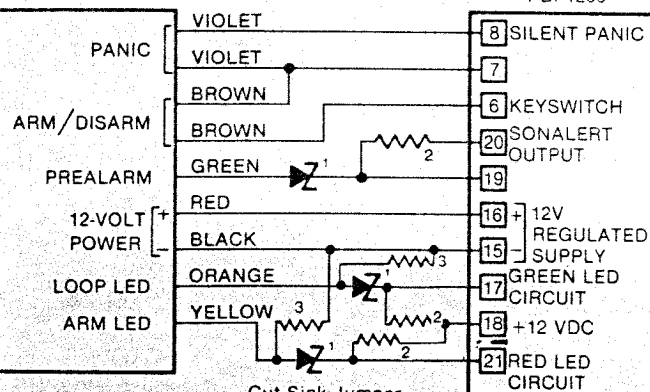
¹ 1.56 V Zener Diodes ² 4.7K pull-up resistors ³ 100K pull-down resistors

Figure #16

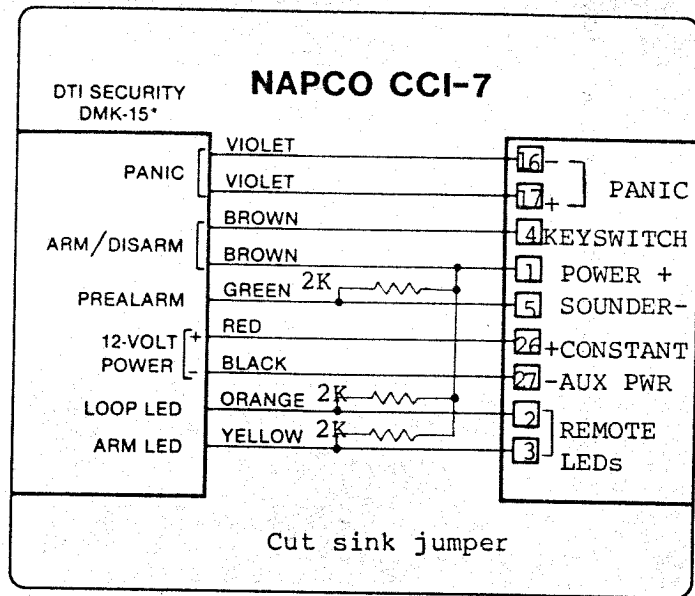


Figure #17

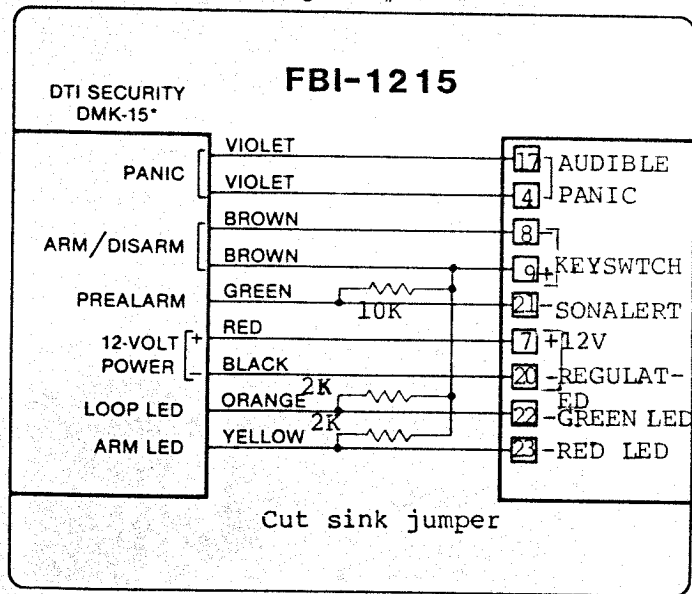
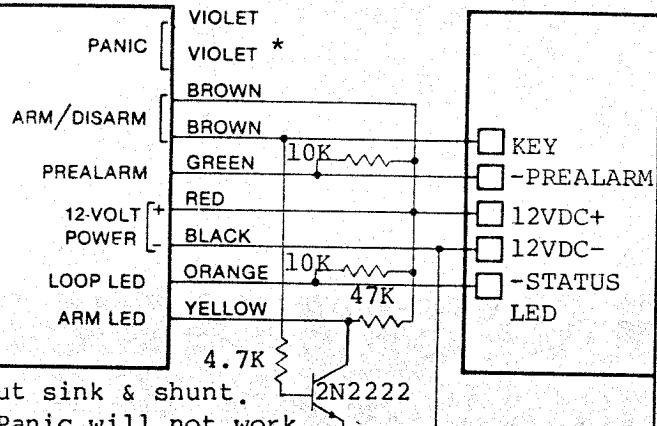


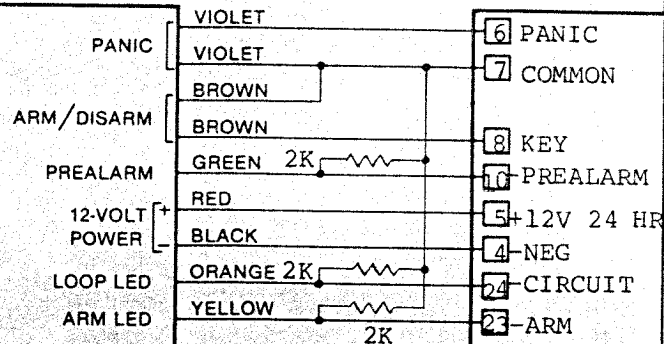
Figure #18

DTI SECURITY
DMK-15***MOOSE MPI-23**

Cut sink & shunt.

*Panic will not work on this panel. Can be used to activate a dialer.

Figure #19

DTI SECURITY
DMK-15***MOOSE MPI-25**

Cut sink jumper

ZONING METHODS

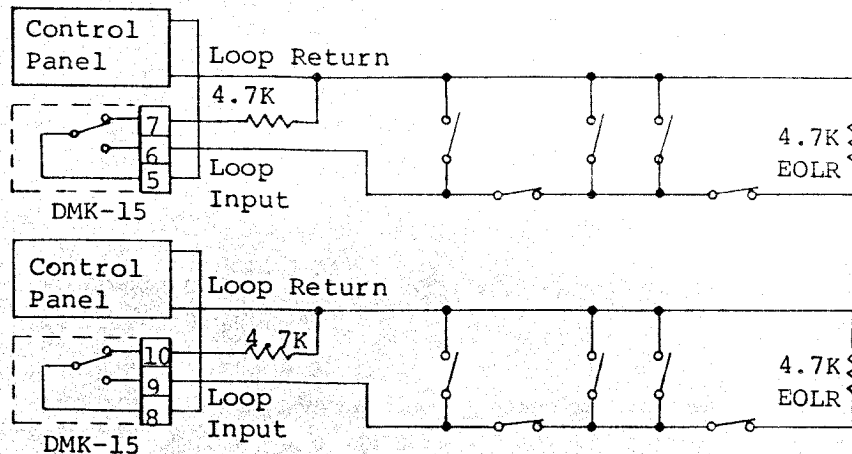
To make a supervised loop into a zone supervised loop: (see Fig. #20)

Connect a 4.7K EOL resistor to terminal 7 (or 10) on the DMK-15 and the loop return terminal of the panel along with the loop return wire(s). Connect the panel's loop input terminal to terminal 5 (or 8) on the DMK-15. Lastly, connect the loop wire to terminal 6 (or 9) on the DMK-15.

NOTES:

1. Terminals 5, 6 & 7 are for the zone 1 relay.
2. Terminals 8, 9 and 10 are for the zone 2 relay.
3. Switches are shown non-violated.
4. DMK-15 relay is shown deenergized.
5. For other than DTI panels, consult manufacturer for correct EOL resistor value.

Figure #20



(Zone Shown Disabled)

METHODS

make a normally open (N.O.)
sensor into a N.O. zoned sensor:

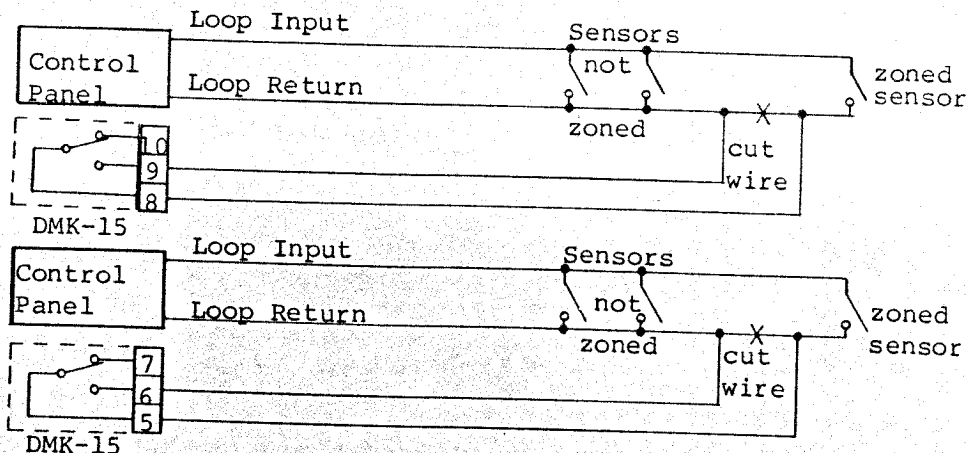
connect terminals 5 and 6 (or
and 9) in series with the sensor(s)
be zoned. When the zone is
disabled, the DMK-15 will disconnect
the sensor(s) from the loop.

(See Figure #21)

ES:

Terminals 5, 6 and 7 are for
the zone 1 relay.
Terminals 8, 9 and 10 are for
the zone 2 relay.
Switches are shown non-violated.
DMK-15 relay shown deenergized.

Figure #21



(Zone Shown Disabled)

ZONING METHODS

To add a normally closed (N.C.) zoned sensor to a N.C. loop:

(See Figure #22)

Connect terminals 5 and 7 (or 8 and 10) in parallel with the sensor(s) to be zoned. When the zone is shunted, the DMK-15 will shunt the sensor(s) from the loop.

NOTES:

1. Terminals 5, 6 and 7 are for the zone 1 relay.
2. Terminals 8, 9 and 10 are for the zone 2 relay.
3. Switches are shown non-violated.
4. DMK-15 relay shown deenergized.

Figure #22

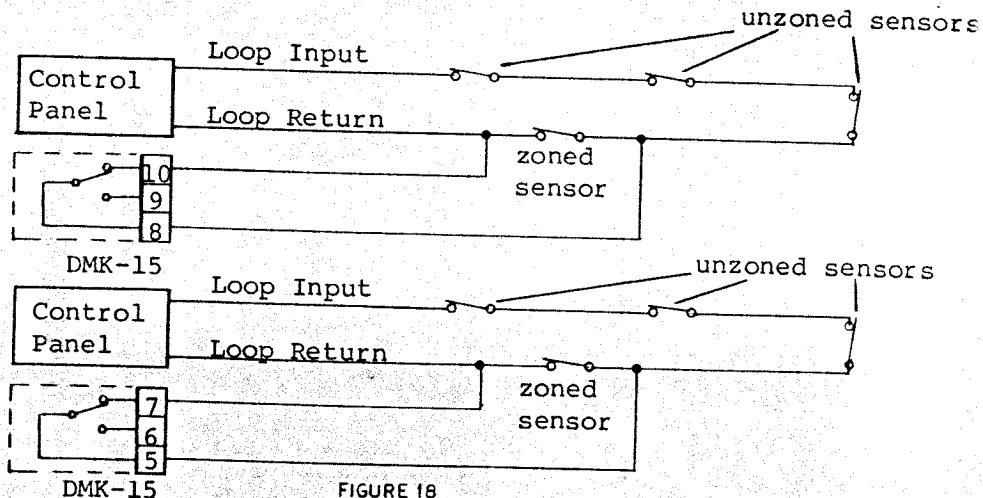


FIGURE 18

(Zone Shown Disabled)

SETTING UP THE SYSTEM

OPTIONS

Timing Methods - please refer to previous diagrams (Figures 20, 21 & 22).

Momentary or Shunt Output- Depending on the control panel being used, you will either require momentary or shunt output. The momentary closure time can be $\frac{1}{4}$ second, 7 seconds, 15 seconds or 30 seconds. If a $\frac{1}{4}$ second closure time is desired, DO NOT plug the timing jumper into any of the sockets. To achieve any of the other closure times, plug the timing jumper into the corresponding socket to the left. If a "latching" (shunt) closure is desired, cut the jumper labeled SHUNT. Check to ensure that the timing jumper is not plugged into any of the sockets. Please see photograph on page 3 for location of these jumpers.

Active High or Active Low- The DMK-15 may be programmed for either active high or active low alarm, loop status and armed status inputs from the alarm panel. For the system to operate properly, all inputs must be either active high or active low. For instance, the buzzer or LED outputs have two wires. One wire will connect to the status output; the other wire will connect to either a positive or negative voltage. If the other wire of the buzzer or LED goes to ground, the outputs are "active high". You would then leave the jumper labeled SINK intact. If the other wire of the buzzer or LED goes to a positive voltage, the outputs are "active low". You would then cut the jumper labeled SINK. Please refer to the photograph on page 3 for location of the SINK jumper. When using the SINK option, pullup resistors must be used (see pages 7 through 12).

SELF TEST FEATURE

When powering up the DMK-15, it has the ability to check its own internal circuitry for proper operation. Before initiating this test, disconnect the alarm sounding device to prevent the test from activating the panic relay. Apply power to the control panel. The self test feature is initiated when power is applied to the unit and none of the programming jumpers are inserted in the sockets. The DMK-15 self test checks the operation of the microcomputer. Each LED will light individually as the corresponding relay momentarily activates. The prealarm will then give one beep. The self test cycle will continue until the power is removed.

PROGRAMMING OPERATIONAL FEATURES

The DCU-15 achieves its versatility through its numerous keypad programmable system options. These options can be selected during installation through the jumpers on the MicroMaster™ or through the programmable features on the remote keypad. Programming is accomplished as follows:

The remote keypads contain an integral speaker which can be used for a prealarm warning provided the control panel being used has such an output. The prealarm in the remote also beeps each time a digit is pressed and beeps 6 times if an incorrect code is entered, independent of any control panel output. This is referred to as an Audio & Tactile Feedback Keyboard.

After 5 wrong tries to arm the system and recognized wrong number attempts, the unit will not accept any auxiliary codes for a security lockout period of 5 minutes. Entering the correct 4 or 6 digit master code operates the system and resets the 5 minute lockout period.

TER CODE

DMK-15 offers the versatility of a 4 or 6 digit master code that is field programmable jumpers on the MicroMaster™. 1,000,000 possible combinations are available utilizing repeating digits. To program the master code, plug the 1st code digit sequence jumper into the desired code number socket. For 2nd code digit, plug the 2nd code digit jumper into the desired code number socket. Continue until all 4 or 6 digits have been selected. If only 4 digits are desired, do not plug in the remaining 2 jumpers.

Programming Example- Master Code "1438"

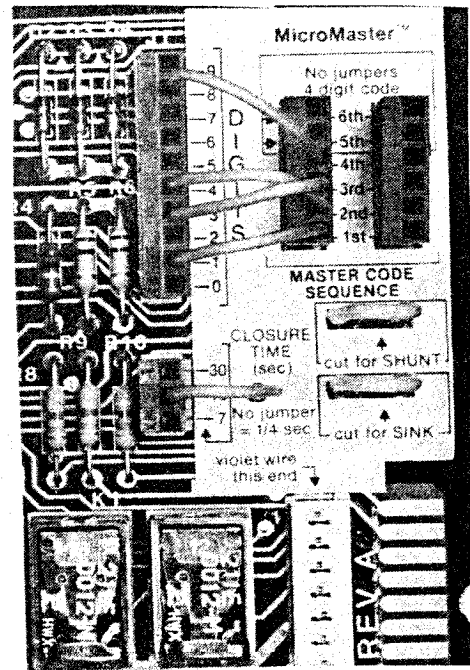
Place the first code digit jumper between "1st" on the middle Master Code Sequence (MCS) socket and 1 on the digits socket.

Place the second code digit jumper between "2nd" on the middle MCS socket and 4 on the digits socket.

Place the third code digit jumper between "3rd" on the middle MCS socket and 3 on the digits socket.

Place the fourth code digit jumper between "4th" on the middle MCS socket and 8 on the digits socket.

In order to program repeating digits, the "Same As" socket to the right must be used. The "Same As" socket allows the installer/customer to select a code number that is the "Same As" a previously used number in the code sequence.



Programming Example Master Code "143111"

1. Place the first code digit jumper between "1st" on the Middle Master Code Sequence (MCS) socket and 1 on the digits socket.
2. Place the second code digit jumper between "2nd" on the middle MCS socket and 4 on the digit socket.
3. Place the third code digit jumper between 3rd on the middle MCS socket and 3 on the digit socket.
4. Place the fourth code digit jumper between 4th on the middle MCS socket and 1 on the right hand socket.
5. Place the fifth code digit jumper between 5th on the middle MCS socket and 4 on the right hand socket. This indicates that you desire the 5th digit to be the "same as" the 4th code number which is the same as the 1st code number, that is code digit 1.
6. Place the sixth code digit jumper between 6th on the middle MCS socket and 5 on the right hand socket. Again, this indicates that you desire 6th digit to be the "same as" the 5th digit, which is also the same as the 4th digit, which corresponds to code digit 1.

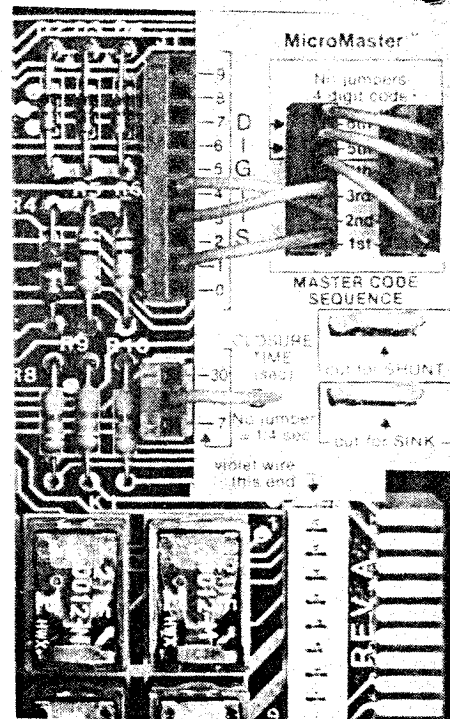


Figure #24

X RY CODES

ling - Three separate keyboard programmable auxiliary codes are offered for user
des convenience. This feature enables the owner to designate separate codes for particular individuals such as babysitters, maids, etc. Auxiliary codes are 4 digits (using repeating digits thus allowing 14,641 possible combinations for each auxiliary code. Digits 0 through 9 and the right dot may be used as part of the code).

Programming the auxiliary codes is accomplished from the keypad by first pressing the left dot, then the master code and digit #1 (indicating the programming of the first code) and then the desired auxiliary code. For additional codes, the same procedure is followed pressing either digit 2 or 3 after the master code (indicating the programming of the second or third auxiliary code respectively).

using -To erase an auxiliary code, follow the same procedure as for programming except
des after entering the master code, press 1, 2 or 3 (representing the auxiliary code to be erased) and wait 5 seconds. This feature allows for immediate deletion of the code.

changing -Authorized code changes can be made by simply following the steps in the above
des paragraphs for adding a code. Entering a new code number over an existing auxiliary code will erase the old code and replace it with the newly programmed code. This process may be repeated as many times as desired.

DURESS FEATURE

The program for the DCU-15 was written to allow the addition of a duress feature. If you wish to use the duress feature, please order a DMK-15D. The DMK-15D uses the zone 2 relay for duress. There is only one zone on the DMK-15D.

To activate the duress, enter a code with the last digit + 1 from an auxiliary code. For example, an auxiliary code may be 5, 7, 9, 3. Entering 5, 7, 9, 2 or 5, 7, 9, 4 will activate the duress. When the duress is activated, the panel will arm or disarm just as if a proper auxiliary code had been entered but the duress relay will also be energized for 4 seconds.

Because of the provision for the duress feature, the panel can be disarmed by as many as 10 different codes: 1 master code, 3 auxiliary codes and 6 "duress" codes. In order to prevent someone from disarming the system by entering random codes, a "wrong number Lockout" feature has been added.

If five incorrect codes are entered in a row, the auxiliary and duress codes are disabled for a security period of five minutes.

To disarm the system, a person must either enter the master code or wait 5 minutes and then enter a correct auxiliary or duress code.

A person trying to guess the codes can try an average of only one code per minute. Since there are 14,641 codes and only 10 codes can disarm the system, it will take an average of 1,464 minutes or more than 24 hours to defeat the system by entering random codes.

The odds of randomly selecting a proper code are 1,463 to 1.

OPERATION

ing Quick Arm: The DMK-15 can be programmed to arm a security system by simply pressing the digit "0". This is referred to as the "Quick Arm" feature. To program the Quick Arm feature into MicroMasterTM memory, first press the left dot on the remote, then the master code and the digit 4. Wait 5 seconds. When the DCU-15 is programmed as Quick-Arm, only the digit 0 will arm the panel (master or auxiliary codes will not operate). The digit 0 will not disarm the panel. A full master or auxiliary code is still required to disarm the system.

Reset: If a panic alarm is reset when the panel is disarmed, only Quick Arm will reset the panel.

Deleting Quick Arm: If you wish to delete the Quick Arm feature, you may erase it by following the same procedures as for adding the Quick Arm, except after entering the master code, press the digit "6".

Audio/Tactile Keyboard: The remote keyboards provide a prealarm speaker. The prealarm in the remote beeps each time a digit is pressed and beeps 6 times if an incorrect code is entered independent of any control panel output.

Wrong Number Lockout: After 5 tries to arm the system with a code in which any wrong number or code sequence was used, the unit will not accept auxiliary codes for a security lockout period of 5 minutes. However, entering the correct 4 or 6 digit master code will operate the system and reset the 5 minute lockout time.

Arming/Disarming - To arm the system, you may either enter the 4 or 6 digit master code, auxiliary code #1, #2 or #3 or by entering "0" on the remote if the system has been programmed for Quick Arm. (Refer to Programming section for features). When the system is armed, the red LED will be lit.

If the Loop Status Indicator (green LED) was in the Safe mode when you attempted to arm the system, but went into the unsafe mode after you entered your code, one of your two zones is unsafe. (See below section for procedure on checking zone loop status). The system will not arm. If there is a problem with one of the two zones or both, you may still arm the system if necessary by shunting the zones. (See below section on shunting the zones).

To disarm the system, a full master code or one of the three auxiliary codes is required. The "0" for Quick Arm will not disarm the system; it is only for arming.

Dual Panic Buttons - By simultaneously pressing both the left and right dot pushbuttons on the DKB-15 remote keypad, the system will go into an alarm condition. This feature operates whether the system is armed or disarmed.

Checking the Zone Loop Status - The green LED is the Loop Status Indicator. Depending on the control panel in use, the LED may either be on or off when the loop is safe. (See control panel instruction manual for details).

To check the loop status of a zone, first check to see that the green LED is in the "Safe" condition. Press digit 1 (representating zone 1). The left amber LED will light for 4 seconds. If the loop is safe, the green LED will remain in the "Safe" mode. If the loop is unsafe, the green LED will change mode indicating an unsafe loop. Repeat for zone 2 by pushing digit 2. The right amber LED will then light and green LED will indicate status.

Zone Shunting Capability with LED Indication - The DMK-15 has two form C (SPDT) relays (rated at .5 AMP maximum) to control the two different zones. When the panel is armed, both relays are energized (opening one contact and closing the other) and the corresponding LEDs on the DKB-15 remote are lit. The user has 4 seconds to bypass zone 1 and/or 2 by pressing 1 and/or 2 respectively on the keyboard. When the system is disarmed, the relays are automatically deenergized (zones bypassed).

At any time the panel is in its disarmed state, a zone relay can be energized for 4 seconds by pressing 1 and/or 2 on the keypad. This allows the user to examine the status of the zones by energizing them and looking at the Loop Status Indicator. Depending on the control panel being used, the Loop Indicator (green LED) may be lit or off in the safe mode.

When the panel being used is made for a momentary key, each time a zone is bypassed, the DMK-15 will attempt to arm the system if it was not already armed. The system will arm once the selected zones are bypassed. If the panel fails to arm within 4 seconds after the DMK-15 attempts to arm, the zone relays and the arm/disarm relay will be deenergized.

Alarm Memory - The DMK-15 is also capable of "Alarm Memory". Depending on the control panel being used, this will be accomplished through either the prealarm output, armed or loop status LEDs. Please refer to control panel instruction manual for details).

Power Loss Indicator - If power to the DCU-15 is interrupted, the Loop Status Indicator (green LED) will blink when power is restored. Power interruption to the system will also erase all programming from the memory such as the auxiliary codes and the quick arm feature. These options must be reprogrammed into the MicroMaster memory anytime all power has been lost.

TROUBLESHOOTING HINTS

SYMPTOM - The relays click during the "Self Test" but the LEDs don't flash on the DKB-15.

TEST - Check for improper wiring to the DKB-15.

SYMPTOM - The relays won't click during the "Self Test".

TEST - Check to see if there is 10-14V between the GROUND and DKB power terminals. If not, either the terminals are shorted or there is no 12V power on the red and black wires.

SYMPTOM - The DMK-15 passes the "Self Test" but the system does not operate correctly.

TEST - Check the hook up diagrams and the DKB-15 to panel wiring. (NOTE: The zone relay contacts are labled in the deenergized (LED off) position. The PREALARM, LOOP and ARM inputs must go below 1V to be considered low. With a shunt panel, the ARM/DISARM relay closes to arm the system).

RECAP OF FEATURES

- * 4 or 6 Digit Master Code (Page 18)
- * 3 Additional 4 Digit Keyboard Programmable Auxiliary Codes (Page 20)
- * Repeating Digits Allowing 1,000,000 Combinations for the Master Code and 14,641 Combinations for Each Auxiliary Code (Page 19)
- * Two Zone Shunting Capability With LED Indication (Page 24)
- * Dual Panic Buttons (Page 23)
- * Audio and Tactile Feedback Keyboard (Page 22)
- * Quick Arm (Page 22)
- * Up to 4 Remotes (DKB-15) per MicroMasterTM (DMK-15) (Page 5)
- * Wrong Code Number Lockout (Page 22)
- * Momentary or Shunt Output (Page 16)
- * Built In Prealarm Speaker (Page 22)
- * Self-Test Feature (Page 17)
- * Adjustable Closure Times (Page 16)
- * Power Loss Indication (Page 24)
- * Four Wire Hookup for DKB-15 Remotes (Page 4)

SPECIFICATIONS

INPUT VOLTAGE: 10.5-14.2 VDC

POWER CONSUMPTION: DKB-15 - 75 mA maximum, 10 mA minimum
DMK-15 - 100 mA maximum, 30 mA minimum

OUTPUT: Arm/Disarm - dry contact relay, momentary, adjustable or shunt: , contacts rated at 30V, ½ Amp.
Panic - dry contact relay: contacts rated at 30V, ½ Amp maximum.
Zones - 2 Form C dry contact relays: contacts rated at 30V, ½ Amp. maximum.

INDICATORS: DKB-15 - Arm/Disarm LED (Red)
Loop Status LED (Green)
Zone 1 LED (Amber)
Zone 2 LED (Amber)

KEYBOARD: 12 buttons, 0 through 9 with two pushbuttons

DUAL PANIC BUTTONS: Keyboard "Dot" pushbuttons simultaneously depressed can be used to trigger the panic circuit of a security system.

CODE COMBINATIONS: 1,000,000 for 6 digit master, 10,000 for a 4 digit master and 14,641 for each auxiliary code.

CODE CHANGE: Master code is field programmable with jumpers for 4 or 6 digit combination with or without repeating digits. Four digit auxiliary codes are keypad programmable.

SIZE & WEIGHT: DKB-15 - 4 7/8"H x 3½"W x 1 1/8" thick, 4½ oz.
(12.4 cm x 8.9 cm x 2.9 cm) (127.5g)
DMK-15 - 4½"H x 3 5/8"W x 7/8" thick, 4½ oz.
(11.42 cm x 9.2 cm x 2.7 cm) (127.5g)

CASE MATERIAL: DKB-15 - High impact ABS, beige color

TEMPERATURE LIMITS: 40°F to 120°F (4.4°C to 48.8°C)

USER OPERATION GUIDE

- Quick Arm - To program this feature, press left dot, enter master code and press digit #4. "0" will then arm system. To erase Quick Arm, press left dot, enter master code and then press digit #6.
- Panic - Press left and right dot on remote simultaneously to cause alarm.
- Master Code - refer to manual for programming, (keep this code secure).
- Auxiliary-
Codes - To program, press the left dot, enter master code and either digit #1, 2 or 3 (representing code #1, #2 or #3) and then enter the desired auxiliary code. To erase an auxiliary code, press the left dot, the master code and digit #1, 2 or 3 (depending on code to be erased) and then wait 5 seconds.
- Checking-
Zone Loop
Status - Check that green LED is in Safe condition. Press digit 1 (representing zone 1) and the left amber LED should light for 4 seconds. If the loop is safe, the green LED will remain in Safe condition. If the loop is unsafe, the green LED will change mode. Follow the same procedure for zone 2 by pressing digit #2, and the right amber LED will then light and the green LED will indicate status.
- Deleting -
Zones - To bypass a zone, arm the system and press either digit 1 and/or 2 for the respective zones desired within 4 seconds.
- Arming - Check that green LED is in Safe mode. Enter either the master code, one of the three auxiliary codes or "0" if programmed for Quick Arm. If green LED was safe when arming process was entered, but then changed mode after you attempted to arm the system, there is a problem with one or both of the zones. Follow above procedure to check the zone loop status.
- Disarming - Enter either the master code or one of the three auxiliary codes. The "0" for Quick Arm will not disarm the system, it is only for Arming.

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WARRANTY

DTI Security products are warranted to be free from defects in material and workmanship for a period of 12 months from date of shipment to the original purchaser. Defective units returned by the buyer at his own expense during this period will, at the seller's option, be repaired or replaced without charge provided that, after inspection, it is the seller's opinion that the unit has not been subject to electrical or physical misuse. In no event shall the seller be liable for any loss or damage, consequential or otherwise, arising out of the use by buyer or failure of the product to operate. This warranty is exclusive and given in lieu of all other warranties, expressed or implied, and is void if the equipment has been visibly damaged by accident, misuse, or if the unit has been modified by anyone other than DTI Security.

DTI Security
A DIVISION OF DATAPAC INTERNATIONAL INC.

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A DIVISION OF DATARA INTERNATIONAL INC.

TECHNICAL PRODUCT INFORMATION

DATE: November 16, 1982
TO: Distribution
FROM: Bill Lutz
National Sales Manager

COPIES TO: Marketing
Customer Service
Representatives

SUBJECT: DTI Arming Controls: DMK-15 / DKB-15

In November 1981 the DCU-15 was modified and upgraded to allow for longer wire runs between the DMK-15 MicromasterTM and the DKB-15 digital remote.

The modification occurred in manufacturing date code week 4581. On the DKB-15 remote control stations, the date code is printed on a white tag located on the inside of the plastic housing. On the DMK-15 MicromasterTM, the tag is on the side of the plastic housing.

Some dealers have recently experienced compatability problems when installing modified and unmodified units together in the same system.

Dealers should be advised the system may not operate under the following conditions and it may be necessary to replace either the DKB-15 or DMK-15 to assure compatability.

1. DMK-15 MicromastersTM manufactured after date code 4581 may not operate with DKB-15 digital remote stations manufactured before date code week 4581.
2. When two or more DKB-15 digital remote stations are installed with a DMK-15, all the keyboards and the DMK-15 must either be manufactured earlier than 4581 or all after 4581.

Should a dealer return either a DMK-15 or DKB-15 for repair, it is extremely important to record the date code for all units in the system and relay this information to DTI when returning the units for repair.

Our records indicate there are only 500 units manufactured prior to the date code 4581.

December 23, 1982

Distributors and Representatives

William P. Lutz *W*

Product Compatibility

DSS-451/452 used with a DCU-15

When using a DCU-15 Micromaster and a DSS-451/452 control panel manufactured before date code 3882 an operational problem may be experienced when attempting to arm the panel with a violated zone.

DSS-451/452 used with a DCU-12

DSS-451/452 control panels manufactured from date code 3982 through 4682 will not operate with a DCU-12 digital remote. If the 451/452 will be used with a DCU-12 the DSS-451/452 must be returned to DTI for modification.

DSS-51/52 used with a DCU-15

DSS-51/52 control panels manufactured prior to date code 5182 will not operate with a DCU-15 Micromaster digital remote. If the 51/52 will be used with a DCU-15 the DSS-51/52 must be returned to DTI for modification.

DSS-772 used with a DCU-15

The DSS-772 will not operate with a DCU-15 Micromaster digital remote.

WPL:drm