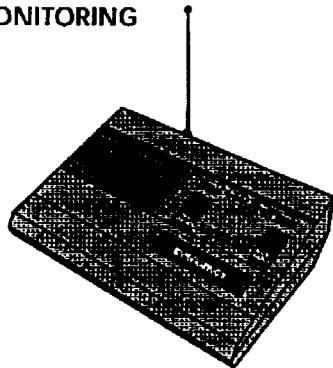


# S-724D S-724DV

## HOME HEALTH CARE MONITORING SYSTEM



### Installation Instructions

# Linear

(760) 438-7000 • FAX (760) 438-7043  
USA & Canada (800) 421-1587 & (800) 392-0123  
Toll Free FAX (800) 468-1340

### PRODUCT DESCRIPTIONS

The S-724D and S-724DV Consoles are wireless emergency aid products designed for medical and smoke detection applications. These table-top or wall-mount Consoles provide "pushbutton" emergency assistance in anyone who desires additional security and peace of mind.

Each Console has three emergency zones that can be activated by up to 32 individual battery-powered wireless transmitters. Activating a transmitter causes the Console's built-in digital communicator to send the appropriate alarm signal to a central monitoring station via the standard, switched, telephone network. An interval beeper will sound to locally indicate an alarm condition.

Removing the Console's snap-in control panel cover reveals the indicator and pushbutton for the optional 24-hour wellness timer. When the wellness timer is enabled, the Console's TIMER RESET button must be pressed, or a transmitter programmed for the wellness zone must be activated, at least once every 24-hours or the communicator will send a Zone 3 report and sound 2 second beeps until reset.

Supervised transmitters send status reports to the Console every hour and low battery reports when their batteries are low. When the Console receives a low battery report, the LOW BATTERY Indicator lights until the transmitter battery is replaced. If the Console fails to receive a status report from a transmitter for a period of eight hours, or indicates a low transmitter battery, the Console activates the communicator trouble Zone 4 and sounds a short beep every six seconds until reset.

Powered by a low voltage plug-in transformer, each Console has provisions for a rechargeable backup battery for operation during AC power outages.

The Model S-724DV Console features a built-in 2-way audio communicator with an internal microphone and speaker. This Console provides audio communication between the subscriber and central station when an emergency alarm is triggered.

### OPERATION SUMMARY

A wide variety of Linear's transmitters can be used with each Console. Supervised and non-supervised transmitters, in DX, DXS, MegaCode™, and ST format can be used. After alarms, the Console will beep until the central station report is completed. The three types of transmitters are:

#### MEDICAL

Portable, non-supervised, pendant or belt-clip type transmitters (Model MPX, LMT-1, EMT-2, MST-1, MST-2, DXT-21, DXT-23, DXT-41, DXT-42, and DXT-61) and stationary, supervised Model DXS-31 transmitters are used for medical alert applications. When this type transmitter is triggered, the Console activates the communicator Zone 1. (Two button transmitters require pressing both buttons.)

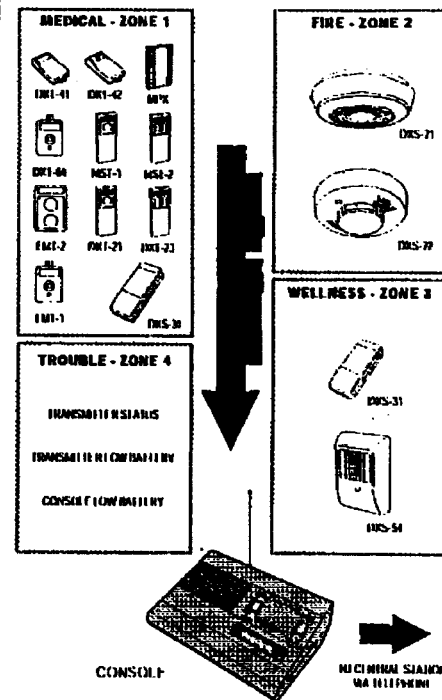
#### FIRE

Ionization and photo-electric smoke detectors (Models DXS-71 and DXS-72) are used for 24-hour fire protection. When this type of transmitter is triggered, its local noisemaker will sound for 20 seconds; then an alarm signal is sent to the Console. The Console activates communicator Zone 2.

#### WELLNESS

Supervised, contact or motion triggered transmitters (Models DXS-31 and DXS-54) are used for ensuring human activity. The motion detector will monitor human presence in a room. The contact activated transmitter can be wired to a pushbutton for manual activity monitoring. As long as a signal is received at least once every 24 hours from these types of transmitters, an alarm will not be triggered. Failure to receive a signal in 24 hours will cause the Console to activate the communicator Zone 3.

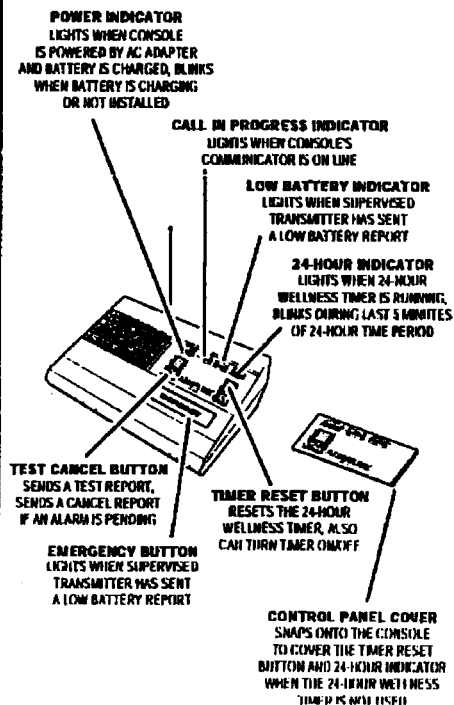
### SYSTEM OVERVIEW



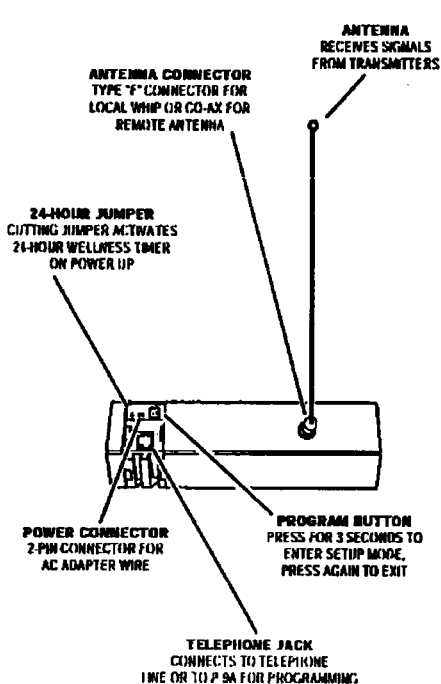
### TRANSMITTER ZONES AND FUNCTIONS

MODEL #	ALARMS WHEN	ZONE
LMT-1	ACTIVATED	1
MPX	ACTIVATED	1
EMT-2	ACTIVATED	1
MST-1	ACTIVATED	1
MST-2	ACTIVATED	1
MST-3	ACTIVATED	1
DXT-21	ACTIVATED	1
DXT-23	ACTIVATED	1
DXT-41	ACTIVATED	1
DXT-42	ACTIVATED	1
DXT-61	ACTIVATED	1
DXS-31 (DELAY MODE)	ACTIVATED	1
DXS-31 (INSTANT MODE)	24-HOURS OF INACTIVITY	3
DXS-54	24-HOURS OF INACTIVITY	3
DXS-71	ACTIVATED	2
DXS-72	ACTIVATED	2
STK	SELECTABLE	2 OR 3
ST-1K	SELECTABLE	2 OR 3
SOS-MA	SELECTABLE	2 OR 3
ESL-373	SELECTABLE	2 OR 3

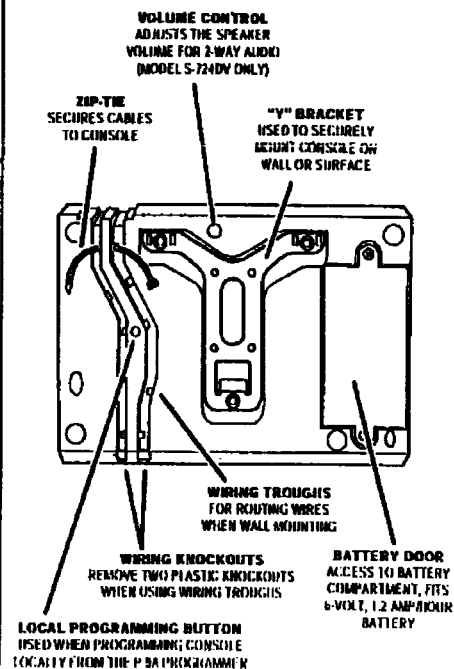
### FRONT PANEL FEATURES



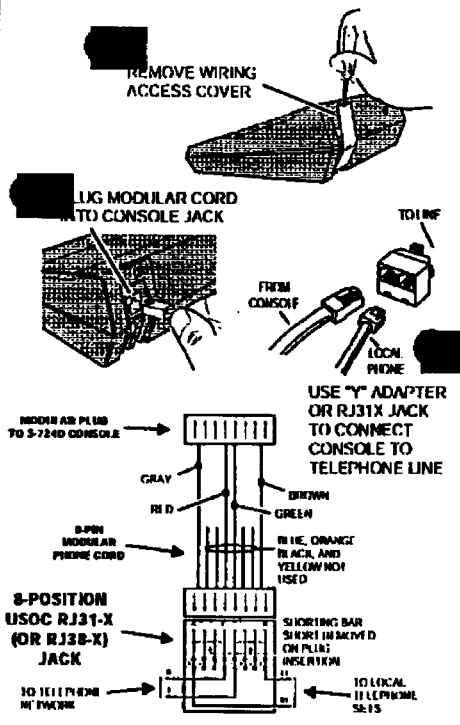
### REAR PANEL FEATURES



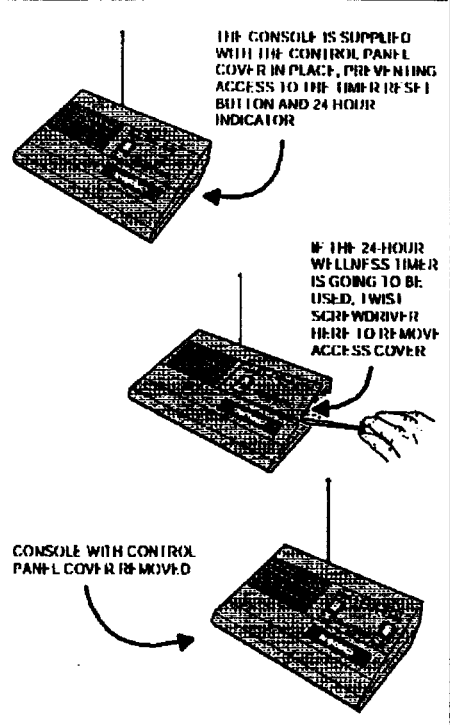
### CONSOLE BOTTOM FEATURES



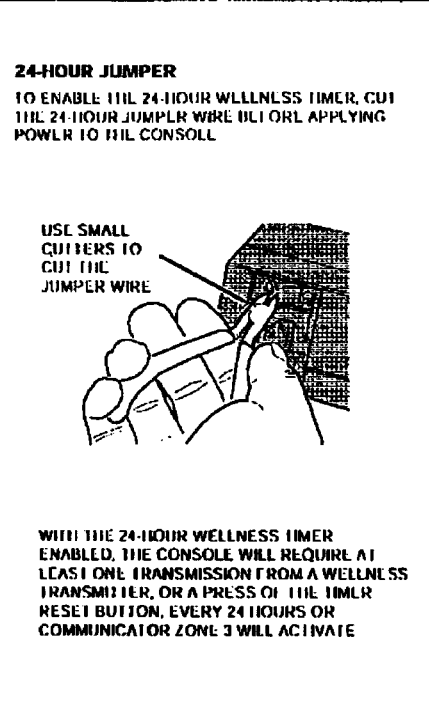
**TELEPHONE CONNECTIONS**



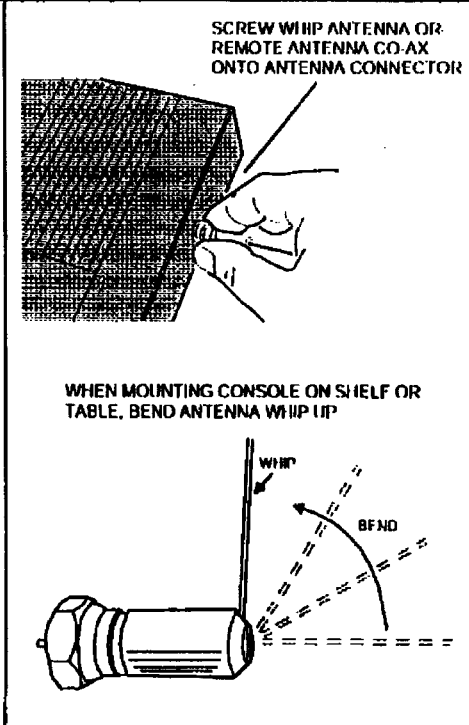
**CONTROL PANEL COVER**



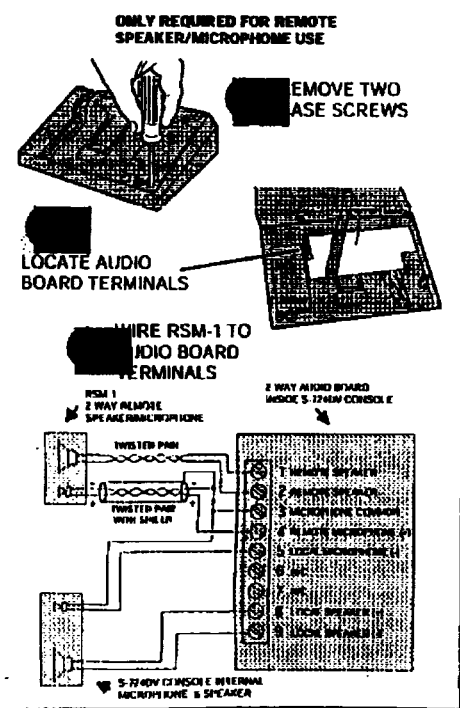
**24-HOUR WIRELESS TIMER JUMPER**



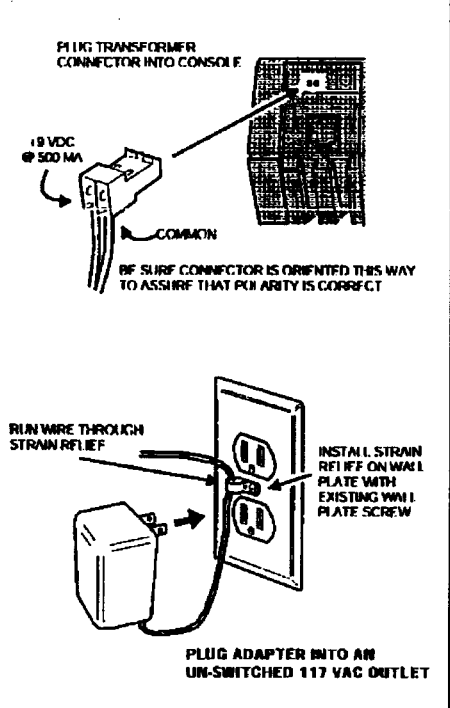
**ANTENNA INSTALLATION**



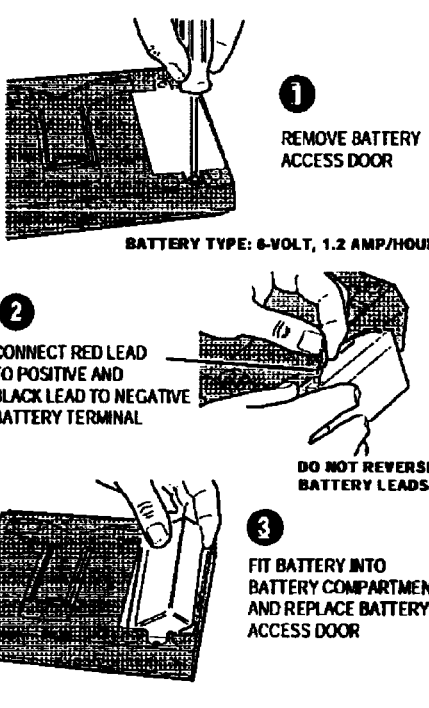
**REMOTE SPEAKER CONNECTIONS (5-7230V ONLY)**



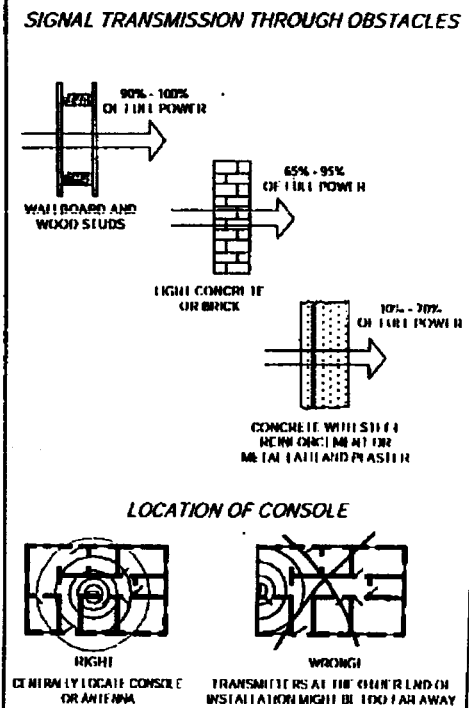
**TRANSFORMER INSTALLATION**



**BACKUP BATTERY INSTALLATION**



**WIRELESS INSTALLATION TIPS**



## ADDING TRANSMITTERS



PRESS PROGRAM BUTTON FOR 3 SECONDS TO ENTER SETUP MODE

(CONSOLE WILL AUTOMATICALLY EXIT SETUP MODE AFTER 5 MINUTES OF INACTIVITY)

PRESS CHANNEL BUTTON TO SELECT EMERGENCY TYPE "A" AND CHANNEL NUMBER (1-16). INDICATOR WILL LIGHT STEADY IF CHANNEL IS EMPTY

ACTIVATE TRANSMITTER. (PRESS RIGHT BUTTON ON 2-BUTTON TRANSMITTERS) CONSOLE WILL BEEP AND EMERGENCY "A" INDICATOR WILL BLINK, SHOWING THAT THE TRANSMITTER WAS ENTERED

SELECT ANOTHER CHANNEL OR PRESS PROGRAM BUTTON FOR 3 SECONDS TO EXIT

## REMOVING TRANSMITTERS



1

PRESS PROGRAM BUTTON FOR 3 SECONDS TO ENTER SETUP MODE

(CONSOLE WILL AUTOMATICALLY EXIT SETUP MODE AFTER 5 MINUTES OF INACTIVITY)

2

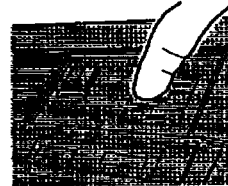
PRESS CHANNEL BUTTON TO SELECT TRANSMITTER TYPE AND CHANNEL NUMBER (1-16). INDICATOR WILL BLINK IF CHANNEL IS OCCUPIED

3

PRESS RESET BUTTON TO ERASE TRANSMITTER FROM MEMORY. INDICATOR WILL LIGHT STEADY

SELECT ANOTHER CHANNEL OR PRESS PROGRAM BUTTON FOR 3 SECONDS TO EXIT

## TEST MODE



PRESS THE TEST BUTTON TO ENTER TEST MODE

(PRESS & HOLD THE TEST BUTTON FOR 5 SECONDS TO TEST ALL DISPLAYS)

CHANNEL DISPLAY WILL SHOW "88" IN TEST MODE IF AC POWER IS OFF, CHANNEL DISPLAY WILL SHOW "AC" WHILE PRESSING TEST BUTTON

ACTIVATE EACH TRANSMITTER AND VERIFY THAT ITS NUMBER SHOWS ON THE CHANNEL DISPLAY

TEST TRANSMITTERS IN VARIOUS LOCATIONS TO DETERMINE USABLE RANGE

PRESS THE CHANNEL BUTTON IN TEST MODE TO TEST THE ALARM RELAY

PRESS TEST BUTTON TO EXIT TEST MODE

CONSOLE WILL AUTOMATICALLY EXIT TEST MODE AFTER 5 MINUTES OF INACTIVITY

## SYSTEM OPERATION

### USER ACTIVATES TRANSMITTER



EMERGENCY TYPE "A" TRANSMITTERS CAUSE THE CONSOLE TO SOUND A CONSTANT BEEP

PRESS FOR 2 SECONDS

EMERGENCY TYPE "B" TRANSMITTERS CAUSE THE CONSOLE TO SOUND A ONE SECOND BEEP WHEN SET FOR ZONE 2 AND A TWO SECOND BEEP WHEN SET FOR ZONE 3

CONSOLE'S COMMUNICATOR WILL DIAL PROGRAMMED CENTRAL STATION NUMBER AND SEND ALARM REPORT

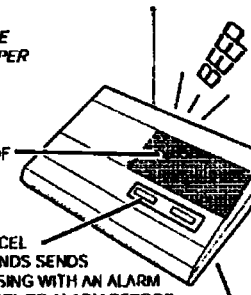
NOTE: BEEPS CAN BE SILENCED, SEE BEEPER JUMPER OPTIONS

DISPLAY SHOWS CHANNEL NUMBER OF LAST TRANSMITTER ACTIVATED

PRESSING TEST/CANCEL BUTTON FOR 2 SECONDS SENDS TEST REPORT, PRESSING WITH AN ALARM PENDING ADDS CANCEL TO ALARM REPORT

WELLNESS ALARMS TRIGGER ZONE 3 AFTER 24-HOURS

CONSOLE'S DISPLAY MEMO STORES PAST EVENTS UNTIL MANUALLY CLEARED



## SUPERVISORY CONDITIONS

EACH SUPERVISORY CONDITION WILL SOUND A SHORT BEEP EVERY SIX SECONDS AND TRIGGER COMMUNICATOR ZONE 4 EVERY HOUR UNTIL THE CONDITION IS CLEARED

CONSOLE LOW BATTERY POWER INDICATOR WILL BLINK WITH CONSOLE'S BACKUP BATTERY IS LOW AND BLINK CHARGED (OR WITH BATTERY IS MISSING)

TRANSMITTER STATUS STATUS INDICATOR WILL BLINK WITH CONSOLE FAILS TO RECEIVE A STATUS REPORT FROM A SUPPLIERS TRANSMITTER IN 8 HOURS

### TRANSMITTER LOW BATTERY

LOW BATTERY INDICATOR WILL BLINK WITH A SUPPLIERS TRANSMITTER SENSORS A LOW BATTERY REPORT

## AUDIO OPERATION (S-712DV ONLY)

### FOR MODEL S-712DV ONLY

WHEN PROGRAMMING THE COMMUNICATOR LOOPS (ZONES), SELECT LOOP 1, 2 OR 3 FOR AUDIO OPERATION

2-WAY AUDIO IS STANDARD UNLESS "AUDIO LISTEN ONLY" IS SELECTED FOR THE LOOP

THE CENTRAL STATION CONTROLS THE DIRECTION OF 2-WAY AUDIO WITH A PUSHBUTTON PHONE

THE CONSOLE'S INTERNAL BEEPER WILL SOUND DURING THE COMMUNICATOR REPORT, BUT WILL BE SILENCED DURING AUDIO TRANSFER

THE SUBSCRIBER WILL HEAR A SHORT TONE WHEN THE CENTRAL STATION SWITCHES FROM TALK TO LISTEN

### AUDIO MODULE STARTS IN LISTEN MODE

**APC 2** PRESS [2] TO TALK TO SUBSCRIBER FROM CENTRAL STATION

**TUV 8** PRESS [8] TO LISTEN TO SUBSCRIBER FROM CENTRAL STATION

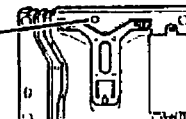
**CHI 4** PRESS [4] TO DISCONNECT THE AUDIO MODULE FROM THE PHONE LINE AND RESET THE CONSOLE DISPLAY

THE CONSOLE WILL AUTOMATICALLY DISCONNECT TWO MINUTES AFTER THE LAST TONE FROM THE CENTRAL STATION

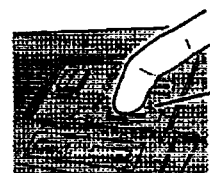
WITH LISTEN ONLY LOOPS, THE CENTRAL STATION WILL NEED TO PRESS "8" AT LEAST ONCE EVERY 2 MINUTES TO KEEP THE AUDIO ON-LINE

THE VOLUME OF THE CONSOLE'S SPEAKER CAN BE ADJUSTED

THE VOLUME CONTROL DOES NOT AFFECT THE MICROPHONE LEVEL



## DISPLAYING & CLEARING EVENTS



PRESS RESET BUTTON TO STOP BEEPER AND DISPLAY/CLEAR EVENTS FROM MEMORY

IF MORE THAN ONE EVENT HAS OCCURRED, PRESS THE RESET BUTTON ONCE FOR EACH EVENT

THE EVENT DISPLAY FOLLOWS THIS ORDER:

- ZONE 2 — FIRST SMOKE ALARM FOLLOWED BY ANY ADDITIONAL SMOKE ALARMS
- ↓
- ZONE 1 — FIRST PANIC ALARM FOLLOWED BY ANY ADDITIONAL PANIC ALARMS (INCLUDING CONSOLE EMERGENCY)
- ↓
- ZONE 3 — FIRST ROBBERY OR WELLNESS ALARM FOLLOWED BY ANY ADDITIONAL ROBBERY OR WELLNESS ALARMS
- ↓
- STATUS — FIRST TRANSMITTER STATUS ALERT FOLLOWED BY ANY ADDITIONAL TRANSMITTER STATUS ALERTS
- ↓
- LOW BATTERY — FIRST TRANSMITTER LOW BATTERY ALERT FOLLOWED BY ANY ADDITIONAL TRANSMITTER LOW BATTERY ALERTS

## DISABLING 24-HOUR WELLNESS TIMER

PRESS PROGRAM FOR 3 SECONDS

IF ANY 24-HOUR WELLNESS TRANSMITTERS HAVE BEEN PROGRAMMED, "24" WILL SHOW ON THE CHANNEL DISPLAY AND THE EMERGENCY "B" INDICATOR WILL BE LIT AFTER ENTERING PROGRAM MODE

TO DISABLE THE 24-HOUR WELLNESS TRANSMITTERS WITHOUT REMOVING THEM FROM MEMORY, PRESS RESET, THE EMERGENCY "B" INDICATOR WILL GO OUT

PRESS AND HOLD THE PROGRAM BUTTON FOR 3 SECONDS TO EXIT PROGRAM MODE

NOTE: THE 24-HOUR WELLNESS TIMER WILL AUTOMATICALLY BE ENABLED EACH TIME PROGRAMMING MODE IS ENTERED OR AFTER A COMPLETE POWER LOSS (AC & BATTERY)

**WARNING: MASTER RESET WILL ERASE ALL TRANSMITTERS IN MEMORY. THE COMMUNICATOR PROGRAM WILL REMAIN**

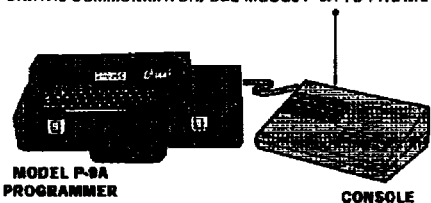
**1** DISCONNECT BACKUP BATTERY AND UN-PLUG AC ADAPTER



**2** PRESS AND HOLD THE PROGRAM AND RESET BUTTONS WHILE RE-APPLYING POWER TO THE CONSOLE



THE CONSOLE CONTAINS A MODIFIED MODEL 1704 DIGITAL COMMUNICATOR. USE MODEL P-9A TO PROGRAM



MODEL P-9A PROGRAMMER

CONSOLE

**COMMUNICATOR ZONES**  
 ZONE #1 - PANIC  
 ZONE #2 - FIRE  
 ZONE #3 - ROBBERY/WELLNESS  
 ZONE #4 - TROUBLE

PROGRAMMING CAN BE DONE LOCALLY OR REMOTELY OVER THE PHONE



PUSH THE LOCAL PROGRAMMING BUTTON TO ESTABLISH COMMUNICATIONS WITH PROGRAMMING LOCALLY

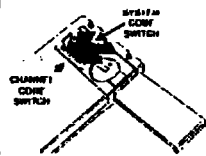
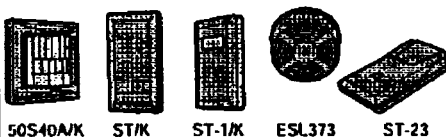
REFER TO THE MODEL P-9A USER INSTRUCTIONS FOR DETAILS ON OPERATING THE PROGRAMMER AND CREATING A 1700 MASTER FILE

ENTER MI IN ADJL.....	SAMPLE
ENABLE TLL PHL COMMUN? (Y/N).....	Y
ENTER PHONE #1.....	5551212
CHNL STA FORMAT FOR PH1:.....	RAIN HLX
ENTER ACCOUNT #1 OR PH1:.....	123
USE DTMF DIALING? (Y/N).....	Y
DTMF FAST RATE DIALING? (Y/N).....	Y
AMERICAN DIAL RATIO? (Y/N).....	Y
IS GROUND START REQUIRED? (Y/N).....	N
ENTER NUMBER OF CALL TMS:.....	3
ENTER SLEEP CYCLES (0-14):.....	1
ENTER SLEEP TIME (MIN):.....	1
ENTER ANTI-JAM I BML (15-255).....	45
ENTER LOOP RESTORAL CODE:.....	0
SUPERVISORY REPORTS? (Y/N).....	Y
ENTER PRIMARY SUPRV PHONL #:.....	1
ENTER SLCDUARY SUPRV PHONL #.....	4
REPORT TO BOTH NUMBERS? (Y/N).....	N
OPEN OR CLOS. REPORTS? (Y/N).....	N
SEND TEST CODE? (Y/N).....	Y
ENTER TEST/CANCEL CODE:.....	0
ARE BATTERY REFS REQUIRED? (Y/N).....	N
IS 24HR CLK-IN REQUIRED? (Y/N).....	N
L01-ACTIVE LOOP? (Y/N).....	Y
L01-TRIGGER POLARITY+? (Y/N).....	Y
L01-ELIMINATE SWINGERS? (Y/N).....	N
L01-PRIMARY PHONE #? (1-3).....	1
L01-SECONDARY PHONE #? (1-3).....	4
L01-REPORT TO BOTH #S? (Y/N).....	N
L01-REPORT LOOP RESTORAL? (Y/N).....	N
L01-ENTER ALARM CODE (0-99).....	03
L01-ENTER LOOP RESPONSE:.....	0
L01-ENTER LOOP PRIORITY (1-7).....	5
L01-AUDIO LOOP? (Y/N).....	Y
L01-AUDIO LISTEN ONLY? (Y/N).....	Y

L02-ACTIVE LOOP? (Y/N).....	Y
L02-TRIGGER POLARITY+? (Y/N).....	Y
L02-ELIMINATE SWINGERS? (Y/N).....	N
L02-PRIMARY PHONE #? (1-3).....	1
L02-SECONDARY PHONE #? (1-3).....	4
L02-REPORT TO BOTH #S? (Y/N).....	N
L02-REPORT LOOP RESTORAL? (Y/N).....	N
L02-ENTER ALARM CODE (0-99).....	01
L02-ENTER LOOP RESPONSE:.....	0
L02-ENTER LOOP PRIORITY (1-7).....	7
L02-AUDIO LOOP? (Y/N).....	N
L03-ACTIVE LOOP? (Y/N).....	Y
L03-TRIGGER POLARITY+? (Y/N).....	Y
L03-ELIMINATE SWINGERS? (Y/N).....	N
L03-PRIMARY PHONE #? (1-3).....	1
L03-SECONDARY PHONE #? (1-3).....	4
L03-REPORT TO BOTH #S? (Y/N).....	N
L03-REPORT LOOP RESTORAL? (Y/N).....	N
L03-ENTER ALARM CODE (0-99).....	02
L03-ENTER LOOP RESPONSE:.....	0
L03-ENTER LOOP PRIORITY (1-7).....	6
L03-AUDIO LOOP? (Y/N).....	N
L04-ACTIVE LOOP? (Y/N).....	Y
L04-TRIGGER POLARITY+? (Y/N).....	Y
L04-ELIMINATE SWINGERS? (Y/N).....	N
L04-PRIMARY PHONE #? (1-3).....	1
L04-SECONDARY PHONE #? (1-3).....	4
L04-REPORT TO BOTH #S? (Y/N).....	N
L04-REPORT LOOP RESTORAL? (Y/N).....	N
L04-ENTER ALARM CODE (0-99).....	06
L04-ENTER LOOP RESPONSE:.....	0
L04-ENTER LOOP PRIORITY (1-7).....	1
L04-AUDIO LOOP? (Y/N).....	N
ENTER DIRECTION OR RCM? (Y/N).....	N
ENABLE REMOTE ACCESS? (Y/N).....	Y
LOCK COMMUNICATOR? (Y/N).....	N

**S1 TRANSMITTER DIPSWITCH SETTINGS**

**COMPATIBLE LINEAR S1 FORMAT TRANSMITTERS**



EACH S1 FORMAT TRANSMITTER HAS A SYSTEM AND CHANNEL CODE SWITCH

- SET ALL SYSTEM SWITCHES TO THE SAME CODE
- SET CHANNEL SWITCHES 5-8 TO DEFINE CHANNEL
- SET CHANNEL SWITCHES 1-4 TO SELECT OPTIONS

CHANNEL SWITCH	5	6	7	8
1	OFF	OFF	OFF	OFF
2	OFF	OFF	OFF	ON
3	OFF	OFF	ON	OFF
4	OFF	OFF	ON	ON
5	OFF	ON	OFF	OFF
6	OFF	ON	OFF	ON
7	OFF	ON	ON	OFF
8	OFF	ON	ON	ON
9	ON	OFF	OFF	OFF
10	ON	OFF	OFF	ON
11	ON	OFF	ON	OFF
12	ON	OFF	ON	ON
13	ON	ON	OFF	OFF
14	ON	ON	OFF	ON
15	ON	ON	ON	OFF
16	ON	ON	ON	ON

**S1 TRANSMITTER OPTIONS (SET ON CHANNEL SWITCH)**

- NORMAL/WEELLNESS**  
 SWITCH 1 OFF = NORMAL (ROBERY)  
 SWITCH 1 ON = 24 HOUR WELLNESS
- BEEPER ON/OFF**  
 SWITCH 2 OFF = BEEPER ON (ALARM)  
 SWITCH 2 ON = NO BEEPER (DISARM)
- ALARM RELAY ON/OFF**  
 SWITCH 3 OFF = NO RELAY (ALARM)  
 SWITCH 3 ON = NO RELAY (DISARM)
- STATUS REPORTS ON/OFF**  
 SWITCH 4 OFF = STATUS REPORTS ON  
 SWITCH 4 ON = NO STATUS REPORTS

**EXAMPLE S1 DIPSWITCH SETTINGS**

ALL S1 FORMAT TRANSMITTERS PROGRAM INTO EMERGENCY TYPE "B" CHANNELS 1-16

APPLICATION	CHANNEL SWITCHES
ROBERY	1-OFF, 2-ON, 3-ON, 4-ON
MEDICAL	1-OFF, 2-OFF, 3-OFF, 4-ON
WELLNESS	1-ON, 2-OFF, 3-OFF, 4-ON

APPLICATION	CHANNEL SWITCHES
SMOKE	1-OFF, 2-OFF, 3-OFF, 4-OFF

APPLICATION	CHANNEL SWITCHES
ROBERY	1-OFF, 2-ON, 3-ON, 4-ON

APPLICATION	CHANNEL SWITCHES
WELLNESS	1-ON, 2-OFF, 3-OFF, 4-OFF

APPLICATION	CHANNEL SWITCHES
ROBERY	1-OFF, 2-ON, 3-ON, 4-OFF
WELLNESS	1-ON, 2-OFF, 3-OFF, 4-OFF

**NOTE: S1/K MODE SWITCH KE Y #1 MUST BE OFF (DOWN) TO ENABLE STATUS REPORTS**

**SPECIFICATIONS**

<b>CODING FORMATS</b>	
DX CODE 24 BIT AID PPM	1,048,567 x 8 CHANNELS
MEGACODE 24 BIT AID PPM	1,048,567 x 8 CHANNELS
S1 FORMAT 16 BIT A1A PPM	256 x 32 CHANNELS
<b>POWER REQUIREMENTS</b>	
PRIMARY SUPPLY	9 VDC 500 mA DC SUPPLY
BACKUP SUPPLY	6 VOLT 1.2 AH BATTERY
NORMAL OPERATING CURRENT	S-712D: 23 mA, S-712DV: 110 mA
ALARM OPERATING CURRENT	S-712D: 100 mA, S-712DV: 420 mA
BACKUP OPERATION DURATION	S-712D UL TESTED @ 24 HRS MIN. S-712DV UL TESTED @ 4 HRS MIN.
<b>BATTERY LIFE EXPECTED</b>	
	3 YEARS
<b>ALARM RELAY</b>	
TYPE	NORMALLY OPEN
RATING	24V AC/DC @ 1 AMP MAXIMUM NEC CLASS II CIRCUITS ONLY
<b>RF CHARACTERISTICS</b>	
RECEIVER TYPE	RSV SUPER-REGENERATIVE
RF SENSITIVITY	-87 dBm TYPICAL
RADIO FREQUENCY	315 MHz
MAXIMUM RANGE	150 FEET LINE-OF-SIGHT, OPEN RANGE
<b>COMMUNICATOR</b>	
TYPE	1704 UPLOAD/DOWNLOAD
FORMATS SUPPORTED	SESCOA SUPER-SPEED & STANDARD RADIOSMS HEX
<b>PROGRAMMER REQUIRED</b>	
	LINEAR P-9A PROGRAMMER
<b>TEMPERATURE REQUIREMENTS</b>	
OPERATING TEMPERATURE	32° TO 100° F (0° TO 50° C)
<b>DIMENSIONS</b>	
WIDTH	9.5" (24.13 cm)
LENGTH	6.75" (17.15 cm)
HEIGHT	3" (7.62 cm)

**LINEAR LIMITED WARRANTY**

This Linear product is warranted against defects in material and workmanship for twelve (12) months. The Warranty Expiration Date is labeled on the product. This warranty extends only to wholesale customers who buy direct from Linear or through Linear's normal distribution channels. Linear does not warrant this product to consumers. Consumers should inquire from their selling dealer as to the nature of the dealer's warranty, if any. There are no obligations or liabilities on the part of Linear corporation for consequential damages arising out of or in connection with use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation, or reinstallation. All implied warranties, including implied warranties for merchantability and implied warranties for fitness, are void only until Warranty Expiration Date as labeled on the product. This Linear Corporation Warranty is in lieu of all other warranties express or implied.

All products returned for warranty service require a Return Product Authorization Number (RPM). Contact Linear Technical Services at 1-800-421-1587 for an RPM and other important details.

**IMPORTANT!!!**

Linear audio controls provide a reliable communications link and an important need in portable wireless signaling. However, there are some limitations which must be observed.

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications to the device may void FCC compliance.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor or dealer, and these facts should be communicated to the ultimate users.