

SEI ADVISOR

ENCODER / DECODER

PROGRAMMING AND INSTALLATION



SEI ADVISOR WALL MOUNT

SEI ADVISOR DESKTOP



Smart Equipment Innovators LLC

seinnovators.com

SEI
SINCE 1980

SEi Advisor

ENCODER / DECODER / RECORDER

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PRODUCTS

ENCODING / DECODING
FOR PUBLIC SAFETY



**SEI
Advisor
Wall Mount**



**SEI
Advisor
Desktop**



SEI Receiver

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ADVISOR PROGRAMMING

ENTER PAGE NO.
* CLEAR # PAGE

Normal Screen



Hold for
6 Sec.

PROGRAM MODE

Displayed for 1.5 Sec.

Programming is intuitive. Just follow the Screens.

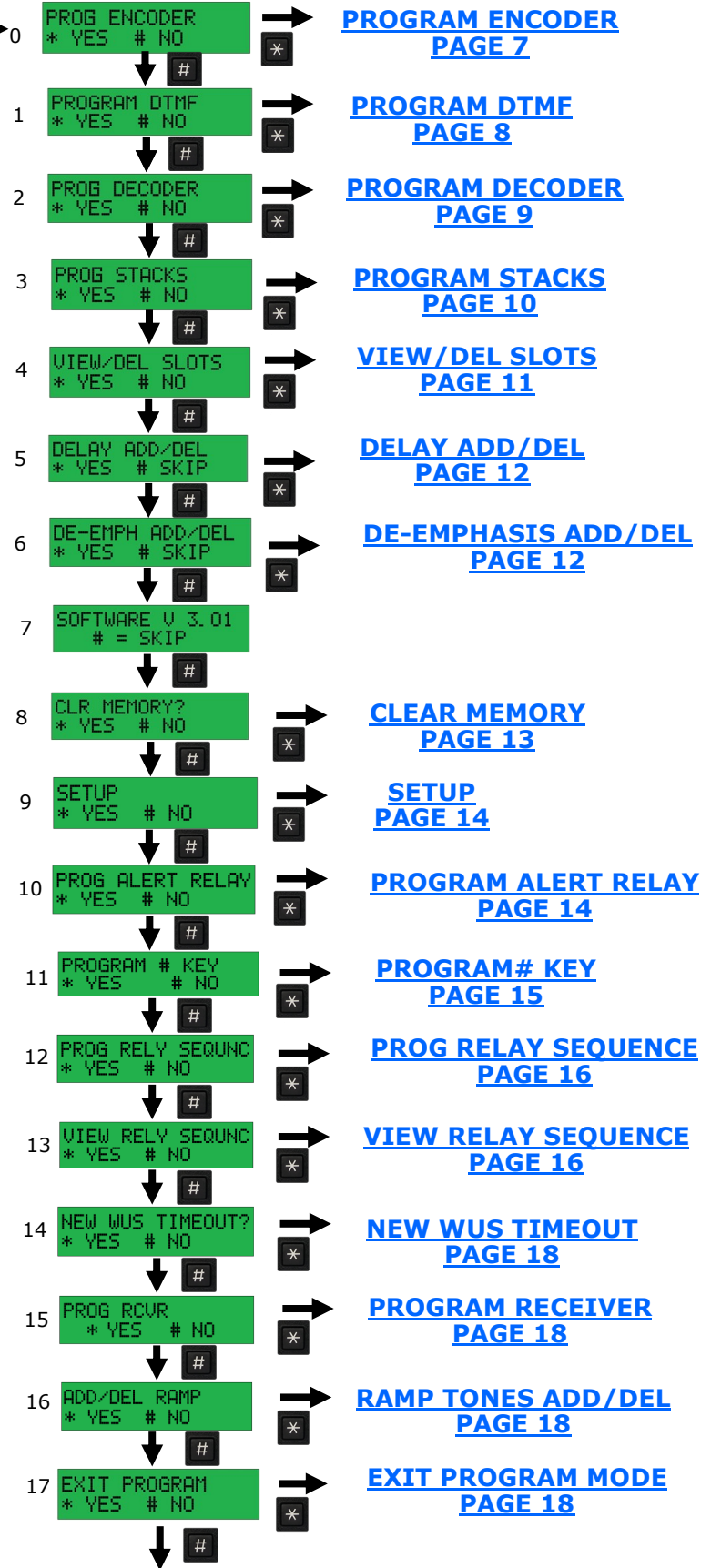
Hold the “#” key for 6 seconds to Enter the Program Mode.

Use the “#” key to step through the main options.

Use the “*” key to select the option.

“*” press *WITH NO ENTRY*, will return to main Program Mode menu

To exit the Program Mode at any time just hold the “#” key for 6 seconds.

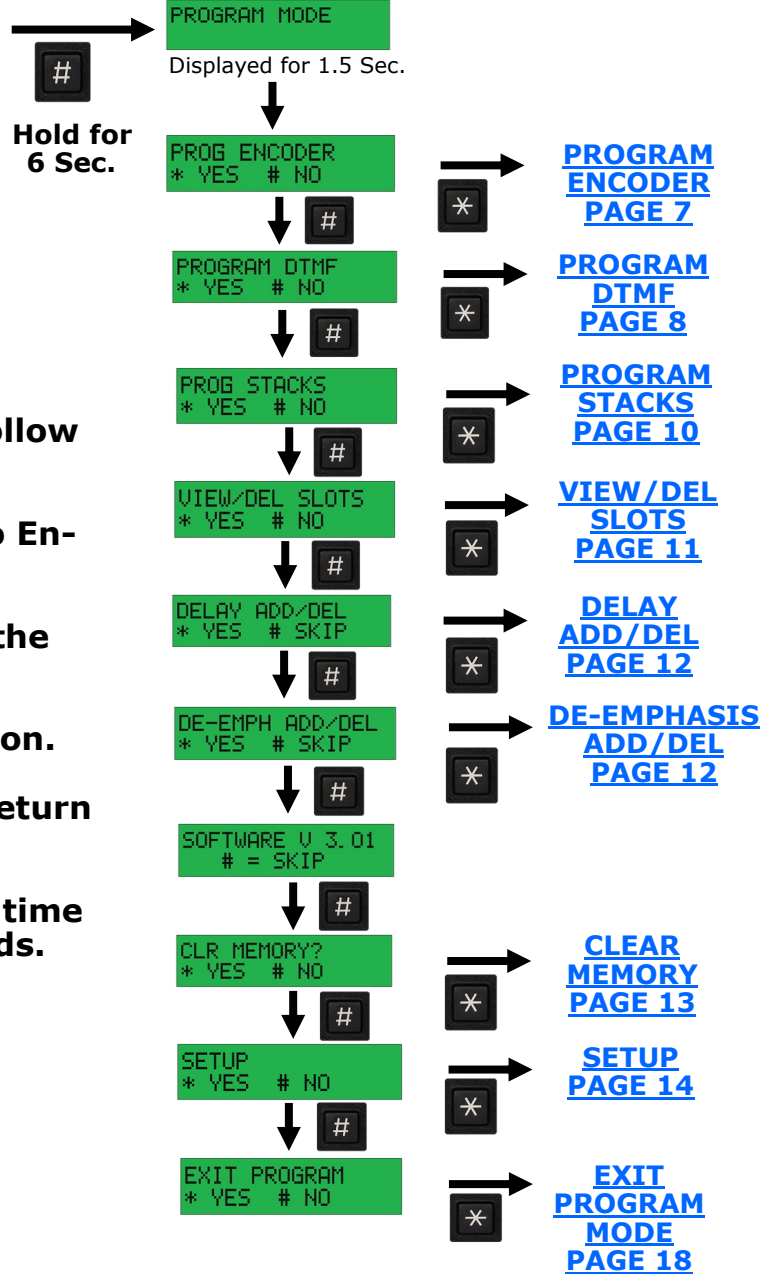


ADVISOR PROGRAMMING

ENCODE ONLY MODELS

ENTER PAGE NO.
* CLEAR # PAGE

Normal Screen



Programming is intuitive. Just follow the Screens.

Hold the “#” key for 6 seconds to Enter the Program Mode.

Use the “#” key to step through the main options.

Use the “*” key to select the option.

“*” press *WITH NO ENTRY*, will return to main Program Mode menu

To exit the Program Mode at any time just hold the “#” key for 6 seconds.

PROGRAM ENCODER

Select Program Encoder from the Program Mode by pressing "*".

Enter the Slot number you want to Program.
Slots 0—999.

Enter the First Tone in the Two Tone Sequence. Include the Digit after the Decimal Point. (For 853.4 Enter 8534)

Enter the Second Tone in the Two Tone Sequence. Include the Digit after the Decimal Point.
(For 1764.5 Enter 17645)

Select "Alert Tone" for an Alert Tone to follow the Page.

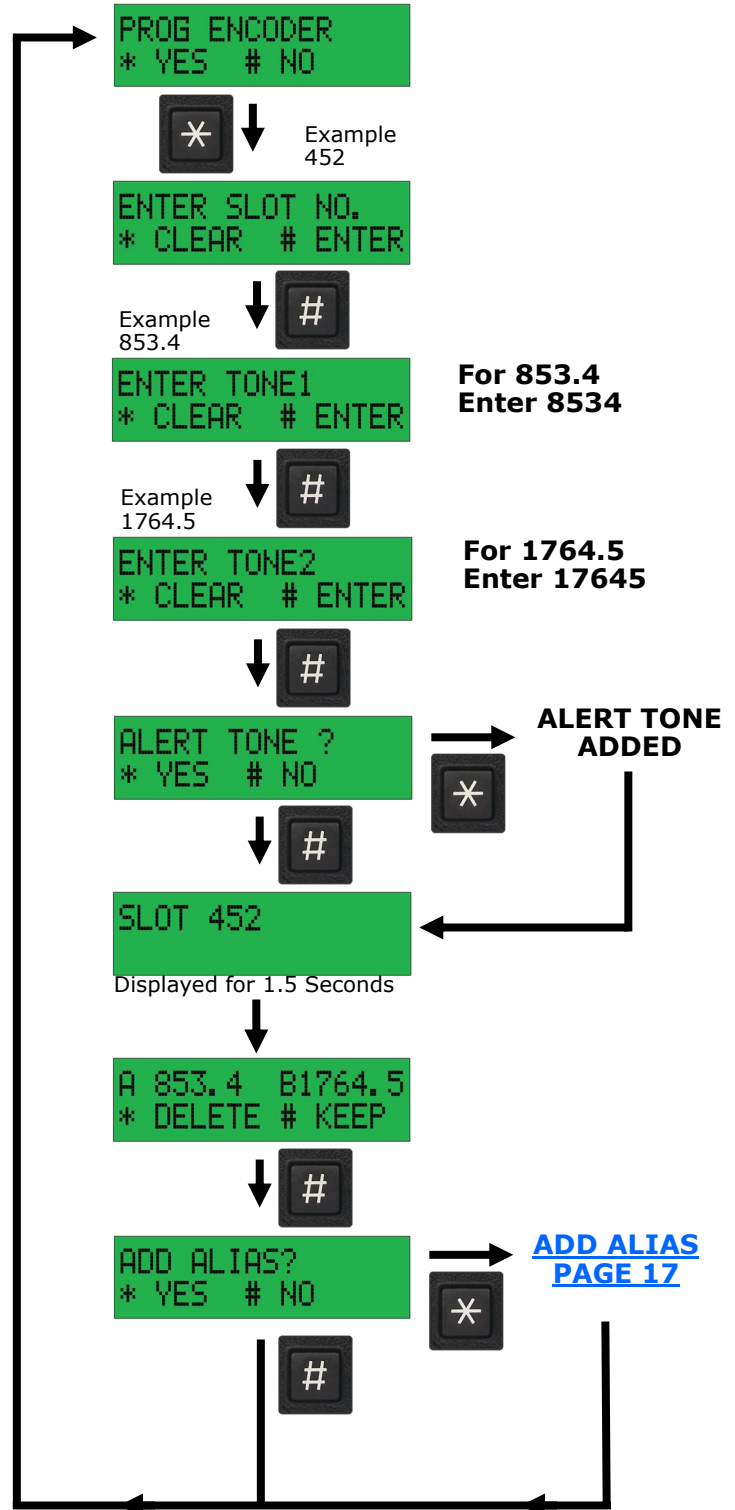
The Slot Number will be Displayed for 1.5 Sec.

Tone A and Tone B will be Displayed. Press "#" to Program the Slot. ("*" TO Start Again)

Press "*" to enter a 16 character Alias for the Slot.
(See Instructions on Page 25)

For Group Call make the A Tone and the B Tone the Same.

It will now Return to "Program Encoder" to Program another Slot if Needed.



PROGRAM DTMF

Select Program DTMF from the Program Mode by pressing "*".

Enter the Slot number you want to Program.

Enter the number of DTMF Tones You want to Send. (Min 1, Max 8)

Enter "1" for Standard DTMF, Enter "2" for Knox F1 DTMF.

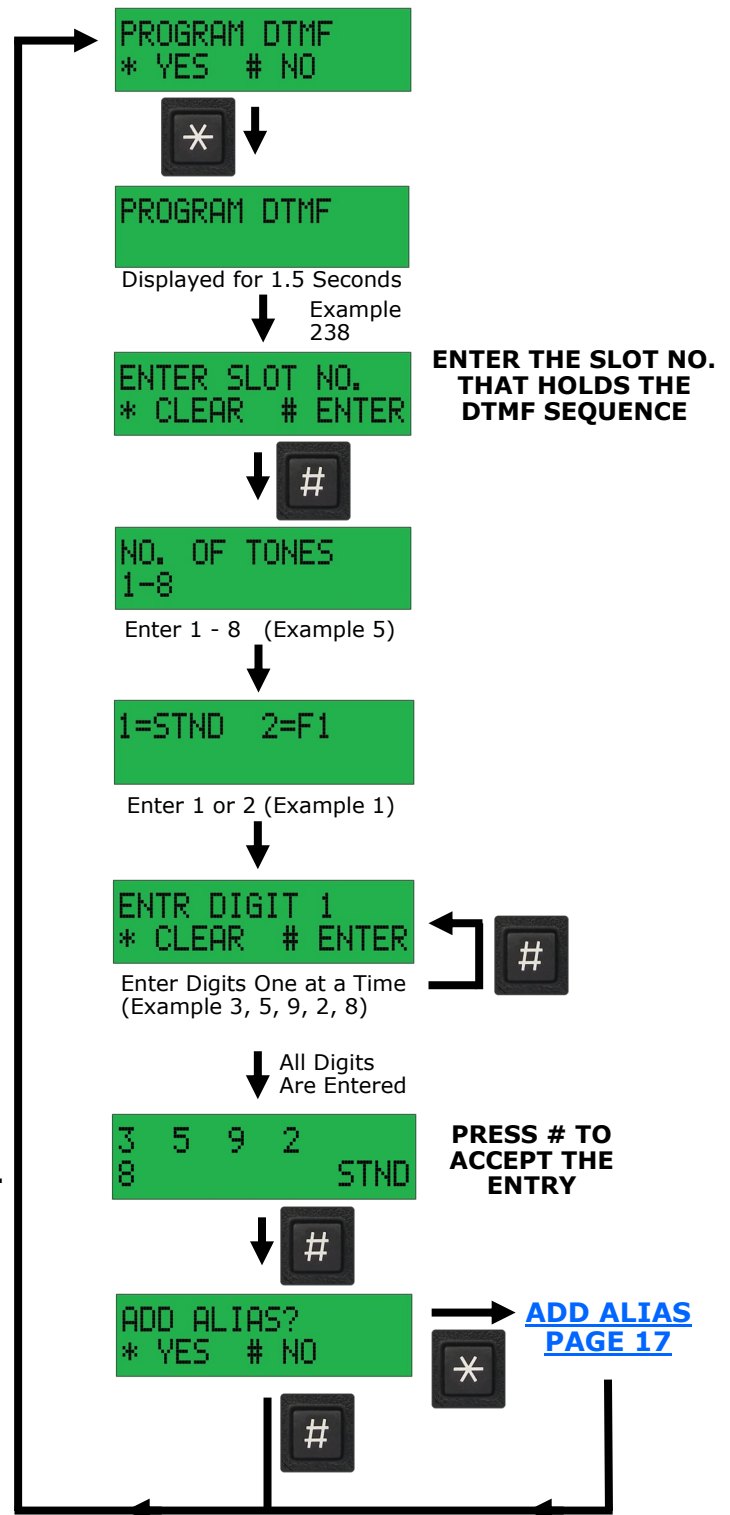
Enter the DTMF Digits One at a Time.

0 = 0 1 = 1 2 = 2 3 = 3 4 = 4
 5 = 5 6 = 6 7 = 7 8 = 8 9 = 9
 10 = * 11 = # 12 = A 13 = B 14 = C
 15 = D

The Tones are then Displayed with the Type. Press "#" to Program the Slot.

Press "*" to enter a 16 character Alias for the Slot. (See Instructions on Page 25)

It will now Return to "Program DTMF" to Program another Slot if Needed.



PROGRAM DECODER

Select Program Decoder from the Program Mode by pressing "*".

Enter the Slot number you want to Program. Slots 1–20.

Enter the First Tone in the Two Tone Sequence. Include the Digit after the Decimal Point. (For 853.4 Enter 8534)

Enter the Second Tone in the Two Tone Sequence. Include the Digit after the Decimal Point. (For 1764.5 Enter 17645)

The Slot number will be Displayed for 1.5 seconds.

Tone A and Tone B will be Displayed. Press "#" to Program the Slot.

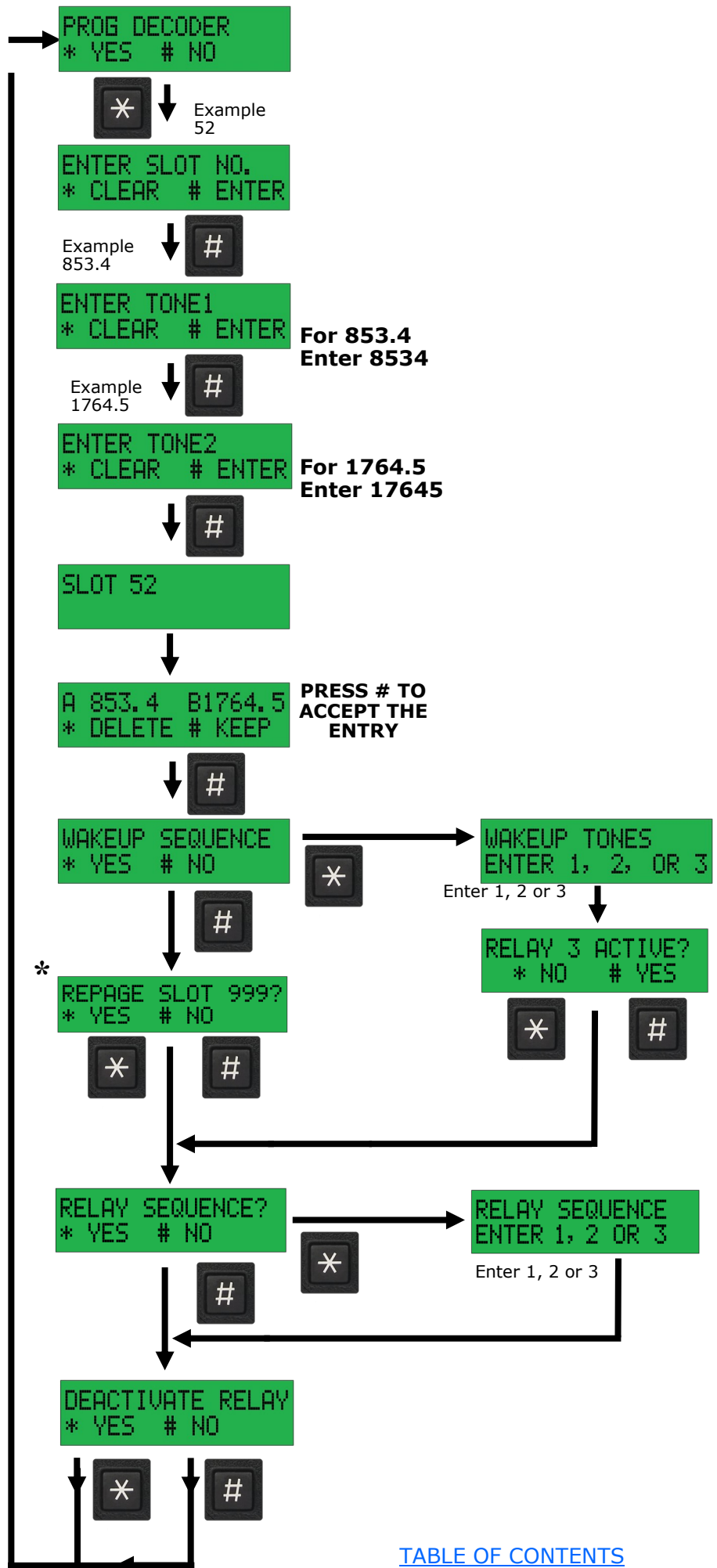
Add WAKE-UP Sequence Option and select 1, 2 or 3. Select if Relay 3 will Actuate or Not.

Add REPAGE SLOT 999? Not Available in Decode Only units or if WAKEUP SEQUENCE is selected.

Add RELAY SEQUENCE. Acts like a PLC to turn Relays on and off in Sequence. Also for timing Relay Events.

Deactivate Relay Option. Keeps Relay 1 from coming on Or Shuts it Off if it is Already On.

It will now Return to "Program Encoder" to Program another Slot if Needed.



PROGRAM STACKS

The Advisor will Accept up to 50 Stacks with up to 48 Slots in each Stack.

Programming is Intuitive. Just follow the Screens.

Enter the Slot number that will Hold the Stack (Example 98)

Press # to Accept the Slot number

Enter the Slot number for Each Slot in the Stack. (Maximum of 48 Slots)

Press "*" to enter a 16 character Alias for the Slot. (See Instructions on Page 25)

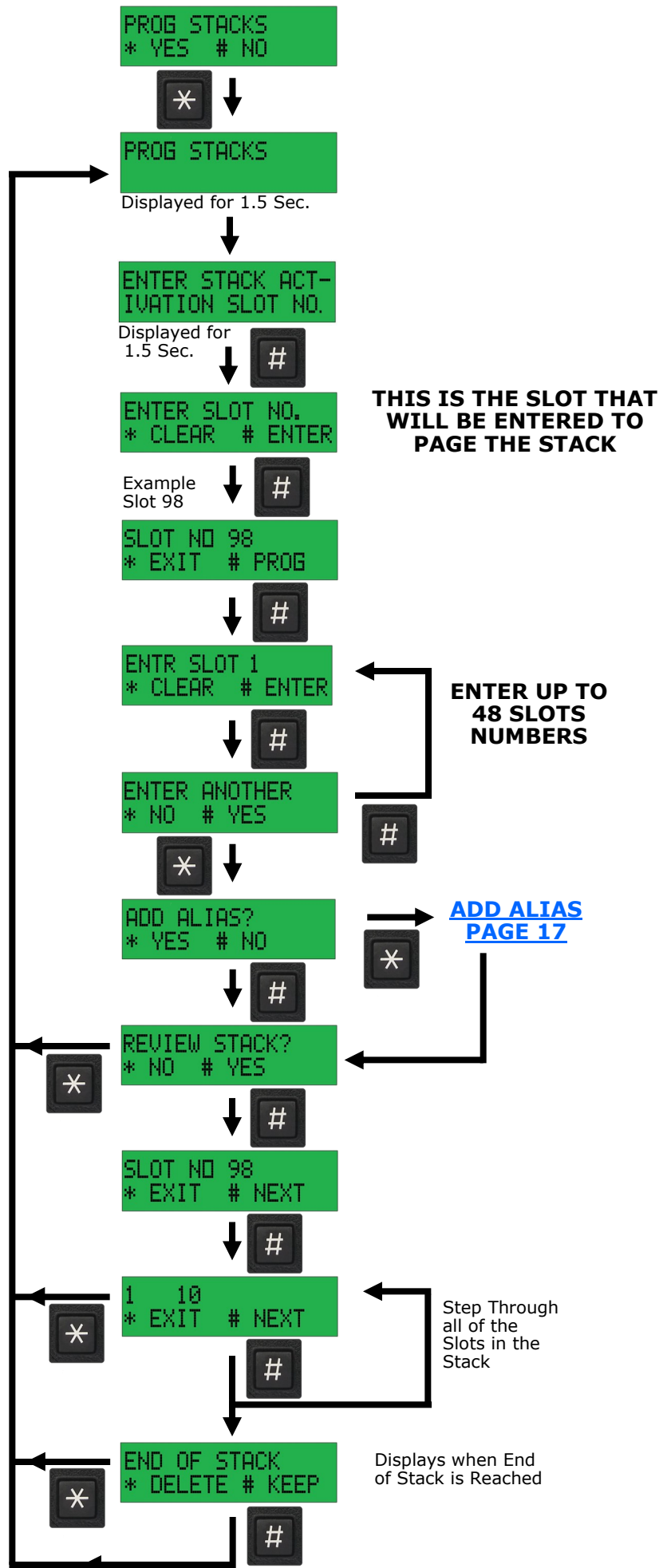
Press "#" to Review the Slots entered into the Stack or Press "*" to Finish.

Display the Slot number that Holds the Stack.

Keep Pressing "#" to Step Through each Slot in the Stack.

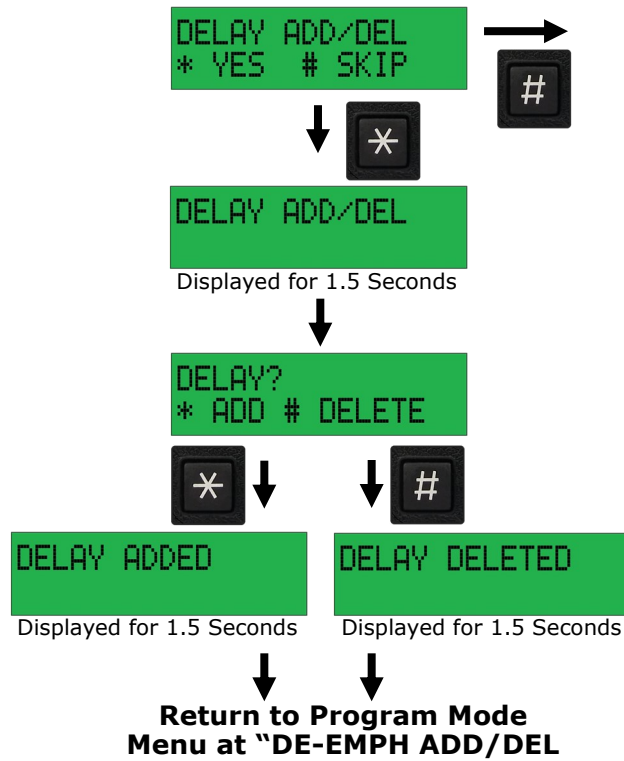
When the End of the Stack is Reached you can choose to keep the Stack or Delete it.

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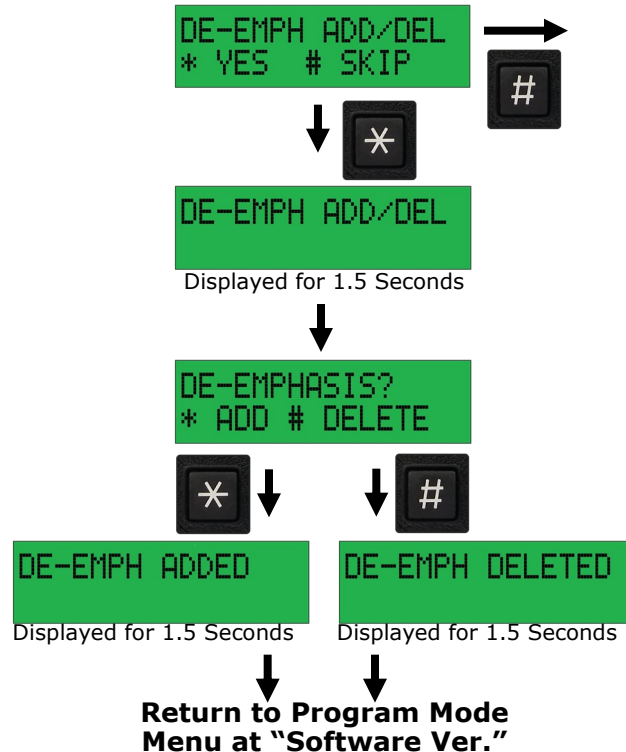
DELAY ADD / DELETE

If a Radio has a PTT ID when it is Keyed then a Delay must be added so the Tones will Transmit After the ID is Done.



DE - EMPHASIS ADD / DELETE

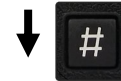
If Transmit Audio has Pre-emphasis (Such as Mic Audio) Add De-emphasis to compensate so the Encoder Audio is Flat



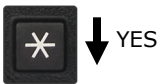
SOFTWARE VERSION

Readout the Software Version Installed.

SOFTWARE V 3.01
= SKIP



CLR MEMORY?
* YES # NO



CLEAR MEMORY

Displayed for 1.5 Seconds

CLEAR MEMORY

Clear the Encoder Memory, Clear the Decoder Memory or Clear the Stack Memory.

CLEAR ENCODER
* YES # NO



ARE YOU SURE?

Displayed for 1.5 Seconds

CLEAR ENCODER
* YES # NO



CLEARING ENCODER

Displayed While Clearing

NO #

NO #

CLEAR DECODER
* YES # NO



ARE YOU SURE?

Displayed for 1.5 Seconds

CLEAR DECODER
* YES # NO



CLEARING DECODER

Displayed While Clearing

NO #

NO #

CLEAR STACKS
* YES # NO



CLEAR ALL STACKS
* YES # NO

Displayed for 1.5 Seconds

CLEAR STACKS
* YES # NO



CLEARING STACKS

Displayed While Clearing

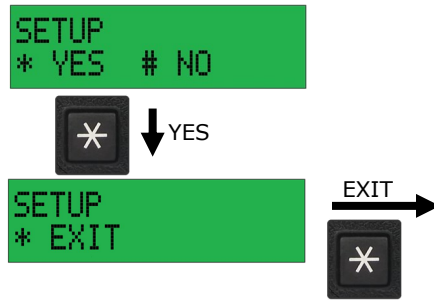
NO #

NO #

Return to Program
Mode Menu at
"SETUP"

SETUP

Setup is used to Generate Tones and Set Relays so Levels can be Adjusted During Installation.



PRESS "1" TO GENERATE TEST WAKE-UP SEQUENCE 1

PRESS "2" TO GENERATE TEST WAKE-UP SEQUENCE 2

PRESS "3" TO GENERATE TEST WAKE-UP SEQUENCE 3

(The WAKE-UP Sequence Test Also Sends Radio Audio to the PA System and Activates the Relays for the Red Lights and the Room Lights.)

PRESS "4" TO RESET RELAYS

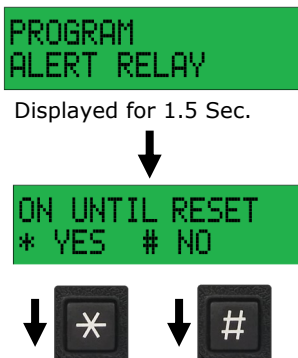
PRESS "5" TO KEY RADIO AND GENERATE 8 SECONDS OF 350 HZ

PRESS "6" TO THE RADIO AND GENERATE 8 SECONDS OF 1000 HZ

PRESS "7" TO THE RADIO AND GENERATE 8 SECONDS OF 2700 HZ

PRESS "8" TO SEND RECEIVE AUDIO TO SPEAKERS ("*" RESETS)
(Returns to normal operation automatically)

PROGRAM ALERT RELAY (RELAY 1)



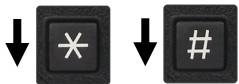
The Default Operation of the Alert Relay is a 2 secs closure of the Contacts when the Advisor is Alerted.

This can be changed in the Programming so when the Advisor is Alerted the Alert Relay will remain on until the "*" Button is pressed to Reset it.

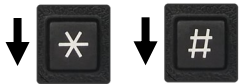
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PROGRAM # KEY

ACT ALERT RELAY?
* YES # NO



MONITOR?
* YES # NO



When the "#" key is pressed with no input (no slot number has been entered), 1 of 4 programmable actions can take place.

1- The Alert Relay (relay 1) will activate.
This can be for 2 secs or until it is reset with the "*" key depending on the setting in "PROG ALERT RELAY".

2- The Advisor will go into Monitor.
This will send the receive audio to the speakers.

3- Both the "Alert Relay" and "Monitor" are Activated.

4- Nothing.
If neither Option is selected then the "#" key is inactive when pressed with no input.

PROGRAM RELAY SEQUENCES

```
PROG RELY SEQUNC
* YES # NO
```

3 DIFFERENT RELAY SEQUENCES CAN BE PROGRAMMED INTO THE ADVISOR SEQUENCE 1, 2 AND 3

7 NUMBERS ARE ENTERED FOR EACH SEQUENCE

- 1 DETERMINES WHICH RELAYS ARE ACTIVATED IN THE SEQUENCE
1- RELAY 1 2- RELAY 2 3- RELAY 3 4- RELAYS 1+2 5- RELAYS 2+3 6- RELAYS 1+3
7- RELAYS 1+2+3
- 2 DELAY BEFORE THE SEQUENCE STARTS (0 TO 99 SECS)
- 3 RELAY "ON" TIME (0 TO 99 SECS)
- 4 RELAY "OFF" TIME (0 TO 99 SECS)
- 5 NO. OF TIMES THIS ON/OFF CYCLE IS RUN (0 TO 99)
- 6 A GAP (0 TO 99 SECS)
- 7 NO. OF TIMES THE WHOLE SEQUENCE IS RUN (0 TO 99)

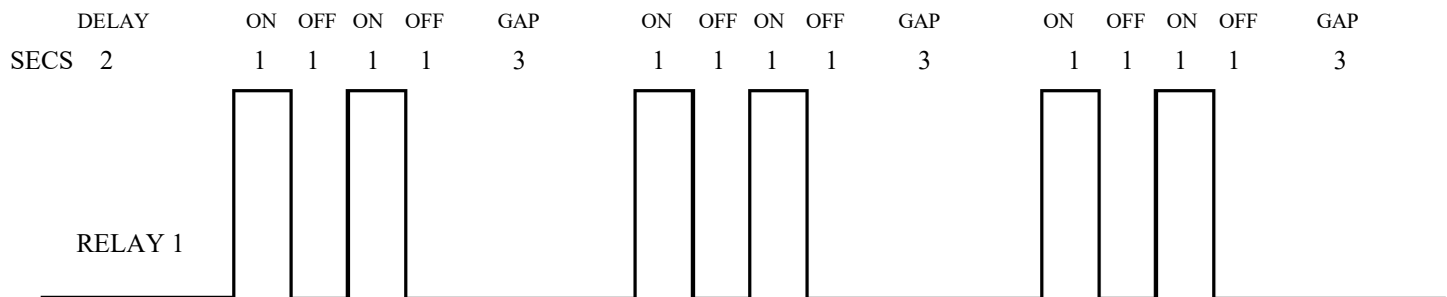
TO SKIP OVER A SEQUENCE JUST PRESS THE "#" WITH NO ENTRY

USE CAUTION: BE SURE RELAYS DO NOT HAVE UNEXPECTED ACTIVATION
RELAY 1 WILL ACTIVATE WITH EVERY ALERT UNLESS IT IS DEACTIVATED
RELAY 2 IS ACTIVATED WHEN AUDIO IS SENT TO THE SPEAKERS AND FOR RED LAMP IN WUS
RELAY 3 IS USED TO TURN ON ROOM LIGHTS IN WAKEUP SEQUENCE (CAN BE DEACTIVATED IN "PROGRAM DECODER")

CAN BE USED FOR TIMING. 1 0 99 0 1 0 12 WILL TURN THE RELAY ON FOR APX 20 MINS.

THE EXAMPLE BELOW IS REPRESENTED BY 1 2 1 1 2 3 3

RELAY 1, 2 SEC DELAY, ON 1 SEC, OFF 1 SEC, RUN 2 TIMES, GAP 3 SECS, RUN ALL 3 TIMES



VIEW RELAY SEQUENCES

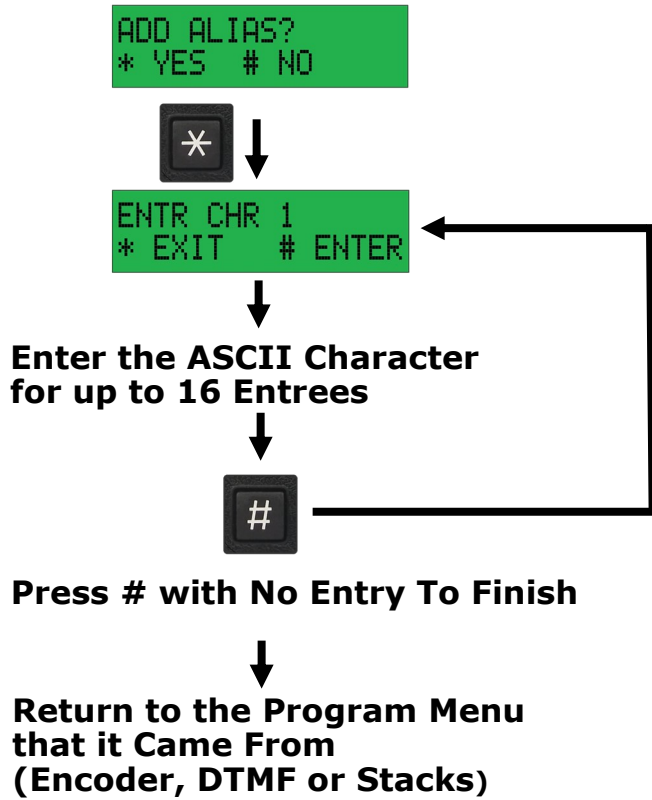
```
VIEW RELY SEQUNC
* YES # NO
```

THE "#" KEY WILL STEP THROUGH THE SEQUENCES.

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ADD ALIAS

Add up to 16 ASCII Characters to an Encoder Slot.
 Characters are Entered One At a Time.
 When Finished the # is Pressed with No Entry.



ASCII CODES

32	SPACE	64	@
33	!	65	A
34	"	66	B
35	#	67	C
36	\$	68	D
37	%	69	E
38	&	70	F
39	'	71	G
40	(72	H
41)	73	I
42	*	74	J
43	+	75	K
44	,	76	L
45	-	77	M
46	.	78	N
47	/	79	O
48	0	80	P
49	1	81	Q
50	2	82	R
51	3	83	S
52	4	84	T
53	5	85	U
54	6	86	V
55	7	87	W
56	8	88	X
57	9	89	Y
58	:	90	Z
59	;	91	[
60	<	92	\
61	=	93]
62	>	94	^
63	?	95	_

Example:
 To Enter EAST GORHAM FIRE

Enter 69, 65, 83, 84, 32, 71, 79, 82, 72, 65, 77, 32, 70, 73, 82, 69
 E A S T G O R H A M F I R E

```

EAST GORHAM FIRE
* CLEAR # PAGE
  
```


NEW WUS TIMEOUT

ALTER THE LENGTH OF THE WAKEUP SEQUENCE
RELAYS ON TIME FROM 1 TO 999 SECS.
IF A RELAY SEQUENCE IS USED THEN THE TIMER
STARTS AT THE END OF THE RELAY SEQUENCE

ENTER 1-999
* CLEAR # ENTER

PROGRAM RECEIVER

ENTER THE FREQUENCY

ENTER THE 3 DIGITS BEFORE THE DECIMAL POINT
ENTER THE 4 DIGITS AFTER THE DECIMAL POINT

ENTER THE PL/DPL CODE FROM THE CHART BELOW

ENTER SQUELCH LEVEL 1 - 8 START WITH 1

THE FREQUENCY AND CODE WILL BE DISPLAYED IF THE PROGRAMMING WAS
CORRECT. PRESS # TO ACCEPT IT.

PL TONE	ENTER CODE	PL TONE	ENTER CODE	ENTER FOR NON INVERT			ENTER FOR INVERT			ENTER FOR NON INVERT			ENTER FOR INVERT		
				DPL CODE	FOR NON INVERT	ENTER FOR INVERT	DPL CODE	FOR NON INVERT	ENTER FOR INVERT	DPL CODE	FOR NON INVERT	ENTER FOR INVERT	DPL CODE	FOR NON INVERT	ENTER FOR INVERT
CS	0000	127.3	0019	023	1023	2023	174	1174	2174	445	1445	2445			
67.0	0001	131.8	0020	025	1025	2025	205	1205	2205	464	1464	2464			
71.9	0002	136.5	0021	026	1026	2026	223	1223	2223	465	1465	2465			
74.4	0003	141.3	0022	031	1031	2031	226	1226	2226	466	1466	2466			
77.0	0004	146.2	0023	032	1032	2032	243	1243	2243	503	1503	2503			
79.7	0005	151.4	0024	043	1043	2043	244	1244	2244	506	1506	2506			
82.5	0006	156.7	0025	047	1047	2047	245	1245	2245	516	1516	2516			
85.4	0007	162.2	0026	051	1051	2051	251	1251	2251	532	1532	2532			
88.5	0008	167.9	0027	054	1054	2054	261	1261	2261	546	1546	2546			
91.5	0009	173.8	0028	065	1065	2065	263	1263	2263	565	1565	2565			
94.8	0010	179.9	0029	071	1071	2071	265	1265	2265	606	1606	2606			
97.4	0011	186.2	0030	072	1072	2072	271	1271	2271	612	1612	2612			
100.0	0012	192.8	0031	073	1073	2073	306	1306	2306	624	1624	2624			
103.5	0013	203.5	0032	074	1074	2074	311	1311	2311	627	1627	2627			
107.2	0014	210.7	0033	114	1114	2114	315	1315	2315	631	1631	2631			
110.9	0015	218.1	0034	115	1115	2115	331	1331	2331	632	1632	2632			
114.8	0016	225.7	0035	116	1116	2116	343	1343	2343	654	1654	2654			
118.8	0017	233.6	0036	125	1125	2125	346	1346	2346	662	1662	2662			
123.0	0018	241.8	0037	131	1131	2131	351	1351	2351	664	1664	2664			
		250.0	0038	132	1132	2132	364	1364	2364	703	1703	2703			
				134	1134	2134	365	1365	2365	712	1712	2712			
				143	1143	2143	371	1371	2371	723	1723	2723			
				152	1152	2152	411	1411	2411	731	1731	2731			
				155	1155	2155	412	1412	2412	732	1732	2732			
				156	1156	2156	413	1413	2413	734	1734	2734			
				162	1162	2162	423	1423	2423	743	1743	2743			
				165	1165	2165	431	1431	2431	754	1754	2754			
				172	1172	2172	432	1432	2432						

ADD/DEL RAMP TONES

IF THE ALERT TONES ARE NOT WAKING PEOPLE
UP THEN THE RAMPING TONE AT THE BEGINNING
CAN BE DELETED.

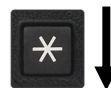
EXIT PROGRAM

Holding # in for 6 Seconds
will Exit Program Mode
from any Program Menu
Location

EXIT PROGRAM
* YES # NO



Continue in
Program Mode



Return to Normal
Operation

RELAY CAPABILITIES AND CONFIGURATIONS

FOUR RELAYS IN THE ADVISOR

RELAY 1 is the ALERT RELAY. The ALERT RELAY is activated with a tone decode with the following exceptions.
- "DEACTIVATE RELAY" is selected under "PROGRAM DECODER".
- a RELAY SEQUENCE is used with that decode slot.

1 set of contacts is available on J2-7&8. A second set of contacts is available on J3-5&6.

The ALERT RELAY is normally on for 2 seconds, however it can be programmed to stay on until it is reset with the "*" key ("PROGRAM MODE" > "PROGRAM ALERT RELAY").

The LED on the front housing is on when the ALERT RELAY is active.

RELAY 2 is the RED LAMP RELAY. RELAY 2 is activated at the start of every WAKEUP SEQUENCE and is normally used to turn on a red lamp to help the personal to wakeup more gradually. RELAY 2 also allows audio to route to speakers.

RELAY 3 is the ROOM LIGHTS RELAY. RELAY 3 activates 4 secs after decode in the WAKEUP SEQUENCE and is normally used to turn on the room lights. RELAY 3 can be deactivated in the WAKEUP SEQUENCE by selecting "NO" under "RELAY 3 ACTIVE?" under "WAKEUP SEQUENCE" under "PROGRAM DECODER".

PTT RELAY The PTT RELAY is used to key the TX during ENCODE.

WUS (WAKEUP SEQUENCE)

The WUS is for waking the on duty crew in a manor that is not startling to them. When the tones are decoded RELAY 2 is activated to turn on a red lamp and route the radio traffic to the speakers. After 4 secs, RELAY 3 is activated to turn on the room lights, unless it is DEACTIVATED.

RELAY SEQUENCES

The **ADVISOR** has 3 programable relay sequences that act like programable logic controllers. Relay 1, 2 or 3 or any combination of them can be used with any of the 3 sequences ("PROGRAM MODE" > "PROG RELAY SEQUENCE").

IMPORTANT CONSIDERATIONS

Relay 1 is activated with every decode unless it is deactivated in "PROGRAM DECODER" for each decode slot that is used.

Relay 2 is active whenever audio is routed to the speakers in WakeUp Sequence (WUS) or when "key 8" is pressed in "SETUP".

Relay 3 is activated in WakeUp Sequence (WUS) unless it is deactivated in the WakeUp Sequence (WUS) programming.

All of this must be taken into consideration when setting up relay sequences, to avoid conflicts.

SOME POSSIBLE CONFIGURATIONS

2SEC PULSE OF ALERT RELAY (RELAY 1) WITH DECODE

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" NO > "RELAY SEQUENCE" NO > "DEACTIVATE RELAY" NO

ALERT RELAY (RELAY 1) ON UNTIL RESET WITH "*" PRESS

"PROGRAM MODE" > "PROGRAM ALERT RELAY" > "ON UNTIL RESET" YES > "PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" NO > "RELAY SEQUENCE" NO > "DEACTIVATE RELAY" NO

WAKEUP SEQUENCE WITH RED LAMP AND ROOM LIGHTS

"PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" YES > "WAKEUP TONES" 1,2 OR 3 > "RELAY 3 ACTIVE" YES > "RELAY SEQUENCE" NO > "DEACTIVATE RELAY" NO

WAKEUP SEQUENCE WITH RED LAMP AND NO ROOM LIGHTS

"PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" YES > "WAKEUP TONES" 1,2 OR 3 > "RELAY 3 ACTIVE" NO > "RELAY SEQUENCE" NO > "DEACTIVATE RELAY" NO

WAKEUP SEQUENCE WITH RED LAMP AND ROOM LIGHTS AND RELAY SEQUENCE

"PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" YES > "WAKEUP TONES" 1,2 OR 3 > "RELAY 3 ACTIVE" YES > "RELAY SEQUENCE" YES > "RELAY SEQUENCE 1, 2, OR 3" 1,2 OR 3 > "DEACTIVATE RELAY" NO

NOTE: IF RELAY 1 (ALERT RELAY) IS USED IN THE RELAY SEQUENCE THEN "DEACTIVATE RELAY" YES MUST BE SELECTED AND ALL OTHER DECODE SLOTS THAT ARE PROGRAMMED. IF RELAY 2 OR 3 ARE USED THEN THE RED LAMP AND THE ROOM LIGHT WILL ACTIVATE WITH THE SEQUENCE. **IT IS IMPORTANT TO CAREFULLY PLAN A RELAY SEQUENCE.**

RELAY SEQUENCE ONLY

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" NO > "RELAY SEQUENCE" YES > "RELAY SEQUENCE 1, 2, OR 3" 1, 2, OR 3 > "DEACTIVATE RELAY" NO

NOTE: USE RELAY 1, 2 OR 3 IF NO OTHER DECODE SLOTS ARE PROGRAMMED. IF OTHER DECODE SLOTS ARE PROGRAMMED THEN YOU MUST CONSIDER WHAT RELAYS WILL ACTIVATE IN THOSE SLOTS.

TURN ALERT RELAY (RELAY 1) ON AND OFF WITH TONES

PROGRAM A SLOT WITH TONES TO TURN THE RELAY ON

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" NO > "RELAY SEQUENCE" NO > "DEACTIVATE RELAY" NO

"PROGRAM MODE" > "PROGRAM ALERT RELAY" YES > "ON UNTIL RESET" YES

PROGRAM A SLOT WITH TONES TO TURN THE RELAY OFF

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" NO > "RELAY SEQUENCE" NO > "DEACTIVATE RELAY" YES

REPAGE TONES THEN RELAY SEQUENCE

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" YES > "RELAY SEQUENCE" YES > "RELAY SEQUENCE 1, 2, OR 3" 1, 2, OR 3 > "DEACTIVATE RELAY" NO

FOUR DIFFERENT TONES TO TRIP FOUR DIFFERENT RELAYS (MOMENTARY CONTACT)

RELAY1

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." 1 > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" NO > "RELAY SEQUENCE" YES > "RELAY SEQUENCE 1, 2, OR 3" 1 > "DEACTIVATE RELAY" NO

RELAY2

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." 2 > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" NO > "RELAY SEQUENCE" YES > "RELAY SEQUENCE 1, 2, OR 3" 2 > "DEACTIVATE RELAY" NO

RELAY3

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." 2 > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" NO > "RELAY SEQUENCE" YES > "RELAY SEQUENCE 1, 2, OR 3" 3 > "DEACTIVATE RELAY" NO

PTT RELAY (IF ENCODING IS NOT USED)

"PROGRAM MODE" > "PROGRAM DECODER" > "ENTER SLOT NO." 2 > "ENTER TONE1" > "ENTER TONE2" > "WAKEUP SEQUENCE" NO > "REPAGE SLOT 999" YES > "RELAY SEQUENCE" NO > "DEACTIVATE RELAY" NO

CREATIVE USE OF DECODING AND RELAYS

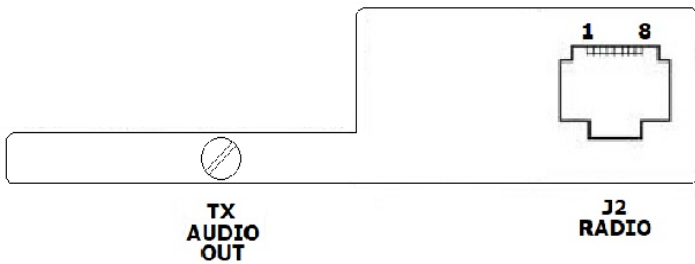
LINK SYSTEMS, KEY MULTIPLE TRANSMITTERS, OPEN AND CLOSE DOORS, USE IMAGINATION.

WE WILL HELP YOU 603 662 2149

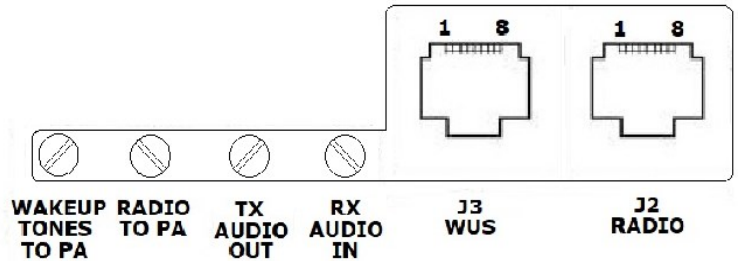
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INSTALLATION

DESKTOP ENCODE ONLY



ENCODE/DECODE



RADIO CABLE

J2 RJ45

1 PTT

2 TX AUDIO OUT

3 RX AUDIO IN

4 TX AUDIO IN

5 POWER

6 GROUND

7 ALERT RELAY RELAY 1

8 ALERT RELAY RELAY 1

CABLE

BRN

BLU

YEL

GRN

RED

BLK

ORG

WHT

CONNECTION TO RADIO

RELAY CONTACT TO GND

SEE NOTE

SQUELCHED AUDIO

MIC AUDIO

12 - 15VDC

GROUND

CLOSURE W/DECODE

CLOSURE W/DECODE

2 SECS OR ON UNTIL RESET
(PROGRAMMABLE)

CABLE IS NOT COMPATIBLE WITH OLDER ADVISOR (A105, A104)

NOTE: **TX AUDIO OUT** IS BEST CONNECTED TO A FLAT AUDIO INPUT. IF THE INPUT HAS PRE-EMPHASIS (SUCH AS A MIC INPUT) THEN SELECT DE-EMPHASIS IN THE PROGRAM MODE.

THE **RX AUDIO IN** SHOULD BE CONNECTED TO SQUELCHED AUDIO THAT DOES NOT VARY WITH THE VOLUME CONTROL.

THE **SEI RECEIVER** CONNECTS TO **RX AUDIO IN** AUTOMATICALLY WHEN PLUGGED IN SERIES WITH THE **ADVISOR**. (SEE PAGE 18)

GROUND **RX AUDIO IN** IF NOT USING DECODER.

SEE INTERCONNECT DIAGRAMS STARTING AT PAGE 35

**REMOTE WALL MOUNT HAS ONLY J3
J2 IS CONNECTED INTERNALLY**

PA/LIGHTS

J3 RJ45

1 ROOM LIGHT RELAY RELAY 3

2 ROOM LIGHT RELAY RELAY 3

3 RED LIGHT RELAY RELAY 2

4 RED LIGHT RELAY RELAY 2

5 ALERT RELAY RELAY 1

6 ALERT RELAY RELAY 1

7 AUDIO TO PA AMP

8 AUDIO TO PA AMP

CAT 5

BROWN

WHITE/BROWN

GREEN

WHITE/GREEN

ORANGE

WHITE/ORANGE

BLUE

WHITE/BLUE

NORMALLY OPEN

NORMALLY OPEN

NORMALLY OPEN

BALANCED AUDIO

SHIELDED CAT 5 CAN BE USED IN HIGH RF ENVIRONMENTS.

Cat 5 Cable is run to the Equipment Room to connect to the PA Amplifier.

INSTALLATION

ADJUST ENCODER

NOTE: **TX AUDIO OUT** IS BEST CONNECTED TO A FLAT AUDIO INPUT. IF THE INPUT HAS PRE-EMPHASIS (MIC INPUT) THEN SELECT DE-EMPHASIS IN THE PROGRAMMING MENU.

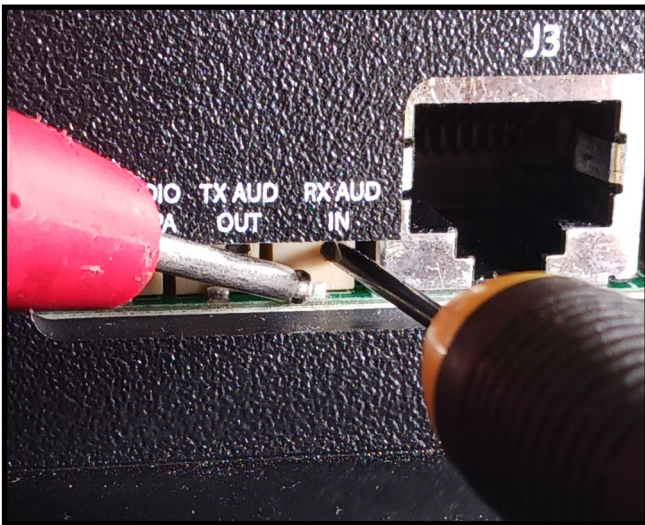
SELECT "SETUP" IN THE PROGRAM MODE. USE "5", "6", AND "7" TO KEY THE RADIO AND GENERATE 350 HZ, 1000 HZ, AND 2700 HZ FOR 8 SEC. ADJUST **TX AUDIO OUT** (MULTI TURN POT) FOR PROPER DEVIATION WITH ALL 3 TONES. SELECT DE-EMPHASIS IF NEEDED.

ADJUST DECODER

BECAUSE OF THE IMPORTANCE OF RELIABLY WAKING THE STATION PERSONAL, THE SIGNAL FROM DISPATCH SHOULD BE FULL QUIETING OR NEAR FULL QUIETING. -94 DBM (4uv) OR BETTER

THE **RX AUDIO IN** SHOULD BE CONNECTED TO SQUELCHED AUDIO THAT DOES NOT VERY WITH THE VOLUME CONTROL.

IF THE ADVISOR HAS AN INTERNAL RECEIVER THEN RX AUDIO IN IS PRESET AND NO ADJUSTMENT IS NEEDED



FEED A FULL QUIETING SIGNAL INTO THE RECEIVER WITH A 1000HZ TEST TONE AT 1.5KHZ DEVIATION. ADJUST "RX AUDIO IN" FOR .1VRMS ON THE WIPER OF THE "**RX AUD IN**" POT.

IF NOT USING THE DECODER FUNCTION OF THE ADVISOR, TURN **RX AUDIO IN** FULLY COUNTER CLOCKWISE (11 TURNS) .

INSTALLATION

ADJUST THE LEVEL OF THE WAKE-UP TONES AND RADIO AUDIO TO THE PA SYSTEM

GENERATE A 1000HZ TONE INTO THE RECEIVER AT 1.5 KHZ DEVIATION. THEN ADJUST **RADIO TO PA** FOR A GOOD LEVEL OF THE 1000HZ TONE TO THE SPEAKERS.

GO TO - PROGRAM MODE > SETUP. PRESS 1, 2 OR 3 TO GENERATE A WAKE-UP SEQUENCE. ADJUST **WAKE-UP TONES TO PA** FOR A GOOD LEVEL.

PRESS 4 TO RESET THE RELAYS WHEN DONE.

INSTALLATION

POWER IN A MOBILE INSTALLATION

IN A MOBILE INSTALLATION THE UNIT SHOULD BE POWERED FROM THE SWITCHED B+ FROM THE RADIO.

MOUNTING THE UNIT IN A MOBILE INSTALLATION

THE ENCODER HAS FOUR THREADED INSERTS ON THE BOTTOM OF THE HOUSING. THE INSERTS MATCH UP WITH THE STANDARD AMPS PATTERN ON A PEDESTAL MOUNT.

DO NOT USE SCREWS LONGER THEN 1/4" OR THE BOARD WILL BE DAMAGED!



PEDESTAL MOUNT



1/4" MOUNTING SCREWS

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WARRANTY

The SEI Advisor is warranted to be free from defects in material or workmanship for a period of 1 year from the date of purchase. Damage due to misuse or modification is not covered under this warranty. The unit must be returned to the factory and we will repair or replace it (at our option) at no charge.

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