Programming

Chart 1 & 2

MSG #	Alarm Message	MSG #	Alarm Message
01	Blank	15	Low Batt. Alarm
02	Opening	16	AC Power Alarm
03	Closing	17	Freezer Alarm
04	Restore	18	Boiler Alarm
05	Cancel	19	Medical Alarm
06	Test	20	Burg Zone 1 Alarm
07	Auxiliary Alarm	21	Burg Zone 2 Alarm
08	Low Batt / AC Alarm	22	Burg Zone 3 Alarm
09	Shunted Zone	23	Medical Alarm
10	Hold-Up Alarm	24	Hold-Up Alarm
11	Fire Alarm	25	Panic Alarm
12	Burglar Alarm	26	Fire Trouble
13	Sprinkler Alarm	27	Hostage
14	Internal Alarm	81-89	Zone N (N=1-9)

Prom Chart 2: English Language Message Programming

Rotary Switch Setting

Phone # Setting	* Access #	* Main #	Subs ID
Primary			
Secondary			

1 2 3 4 5 6 7 8   1 2 3 4 5 6 7 8   9

High Speed Channels   Low Speed Alarm Codes

Programming

Chart 3 & 4

PROM CHART 3: LINE CARD ENGLISH LANGUAGE ENABLING

1	2	3	4	5	6	7	8	OPTION SWITCHES ON 690

a. Check line card #'s to be enabled for English Language
b. Rotary switch to the RESTORE position (position 10)

PROM CHART 4: LINE CARD "ZONE" ENGLISH LANGUAGE OPTION

1	2	3	4	5	6	7	8	OPTION SWITCHES ON 690

a. Check 685-2 Line Card #'s to be enabled. **Note:** Only for line cards operating in High Speed format, and they must also be enabled via PROM chart 3
b. Rotary switch to the 16 SEC. DELAY position (position 7)

Programming

Chart 5

PROM CHART 5: REMOTE ALERT DELAY SELECTION
(Skip if Pulse Relay Option is to be selected)

1	2	3	4	5	6	7	8	DELAY (Sec.)	1	2	3	4
			NOT USED					1		NONE		
								5	4			
								10		4		
								15	4	4		
								20			4	
								25	4		4	
								30		4	4	
								35	4	4	4	
								40				4
								45	4			4
								50		4		4

(SWITCH # header spans columns 1 2 3 4)

a. At table to right, circle desired remote alert delay time.
b. Check corresponding switch #'s on chart above. **Note:** No programming is required for 1 second time delay
c. Rotary switch to the SECONDARY # ONLY position (position 8)

Programming

Chart 6 & 7

PROM CHART 6: OPERATING OPTION SELECTION

1	2	3	4	5	6	7	8
50 Hz	Euro Cal	Auto A.C.	Test Msg.	Pulse Relay	300 Baud	1200 Baud	2400 Baud

BAUD RATE IS 600 IF NONE OF THE BOXES ARE SELECTED _____

Rotary switch to the OPEN / CLOSE position (position 9)

PROM CHART 7: COMPUTER OPTION SELECTION

1	2	3	4	5	6	7	8

1. ACK /NAK
2. Escape character
3. Manual Mode on Failure
4. Test Computer
5. Alert Tone Silence
6. Remain in Auto mode if printer fails and compute OK (4.6+)
7. CAPS 4+2 Output for 4+2 Messages (do not set to send a 4+2 message to the Ademco / MAS computer
8. Inhibit 4+2 codes B & C to High Speed Ademco

Rotary switch to the INVERTED position (position 6)

Programming

Chart 8 & 9

:

PROM CHART 8: CODE 9 RESTORE REPORT TRANSLATION

1	2	3	4	5	6	7	8

a. Check line card numbers for which translation of Code 9 Restoral Reports into Ademco High Speed is to be enabled.
b. Rotary switch to the SYSTEM OPTIONS position (position 5)

PROM CHART 9: LINE CARD 3-1 WITH CHECKSUM ENABLING

1	2	3	4	5	6	7	8

a. Check line card numbers for which 3-1 with checksum reports are to be enabled. (If selected, then 4-1 messages cannot be received)
b. Rotary switch to position 12 (NOT USED)

Programming

Chart 10 & 11

PROM CHART 10: MISC OPTIONS

1	2	3	4	5	6	7	8

1. Enable Long Range Radio Diagnostics
2. Do not set if combining 3-1 and 4-1 expanded formats
3. Translate BFSK into 4-2 format instead of High Speed
4. Inhibit alert sounder on system failures (used with chart 7 #5)
6. Translate Low Speed expanded to 4-2 instead of High Speed
7-8 Enable English language of Poll Time-out instead of system failure (Radio Only)

Rotary switch to position 11 (NOT USED)

PROM CHART 11: LISTEN-IN OPTIONS

1	2	3	4	5	6	7	8

a. Select the line cards that will hold the line for 30 seconds after kiss-off for listen-in purposes
b. Rotary switch to position 13 (NOT USED)

Phone Line Filters

685 Rear View

SA685-39 Filter Box

Tip Ring — Line 1   Ground   Tip Ring — Line 8

MODEL LF - 465   SEE K3429 FOR INSTALLATION INSTRUCTIONS

EARTH GROUND   LF-465

PHONE LINES

Line 1 = Brown wire
Line 2 = Red wire
Line 3 = Orange wire
Line 4 = Yellow wire
Line 5 = Green wire
Line 6 = Blue wire
Line 7 = Violet wire
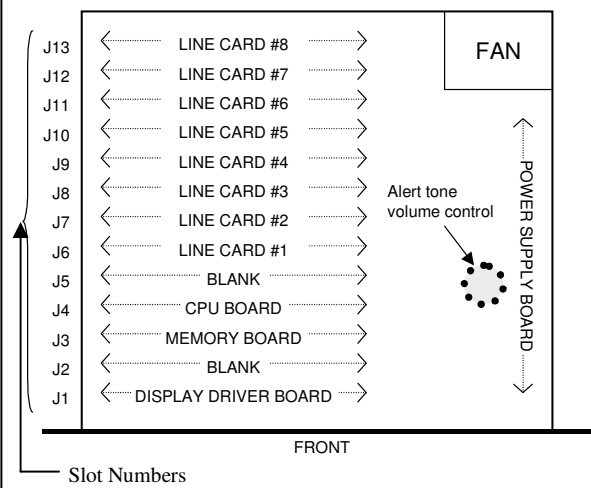Line 8 = Gray wire

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Part Numbers

Description	Part Number
Memory Board *	685-48
Old Memory Board	685-3
CPU Board *	P8138
Display Driver Board *	SA685-2
Power Supply Board *	SA685-7
Universal Line Card	685-8
Long Range Radio Line Card	685-5
Derived Channel Line Card	685-9
Derived Channel Line Card w/ ATU	685-9AT
Telco Line Filter (new plug-in type)	LF-465
Telco Line Filter (old terminal type)	SA685-39
Parallel Printer cable	686-2
Back-up Battery Cable	SA685-35
Momentary Pushbutton switch *	P8036
Latching Pushbutton switch *	P8034
Keytop Pushbutton switch *	P8035
Fan	P8148
AC power cable	P8137
Transformer	P8149
3 amp Fuse *	90-10
15 amp Fuse *	90-15
Green LED *	P8040GR
Red LED *	P8040RD
Yellow LED *	P8040YE
Front Display Board – left *	SA685-5
Front Display Board – right *	SA685-10
NPN Power Transistor *	P2724
Socket type shorting jumper *	P8160
Spare parts kit (parts with * included)	685SK

Chassis

J13	LINE CARD #8
J12	LINE CARD #7
J11	LINE CARD #6
J10	LINE CARD #5
J9	LINE CARD #4
J8	LINE CARD #3
J7	LINE CARD #2
J6	LINE CARD #1
J5	BLANK
J4	CPU BOARD
J3	MEMORY BOARD
J2	BLANK
J1	DISPLAY DRIVER BOARD

FAN

Alert tone volume control

POWER SUPPLY BOARD

FRONT

Slot Numbers

Line Card

685 Connection
Ring detect chip
Phone line monitor

Line card number dial
691 prom

ADEMCO

Line Card Programming:
Hi Lo = 1
1400Hz = 2
2300Hz = 3

1. Set Primary Secondary switch to "SECONDARY"
2. Set rotary switch to "SUBS ID"
3. Program the numbers from above for the order of handshakes

If no prom is in socket, handshakes are Hi Lo, Hi Lo, 1400, 2300

685

Survival Guide '99

Pocket Version

Memory Board

P9
P10   P8
P7
685-1
685-2
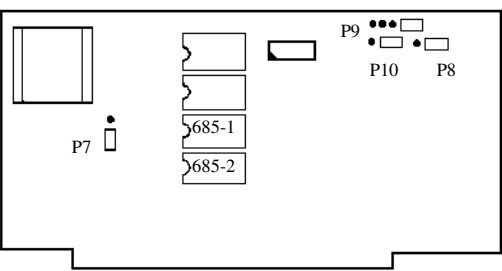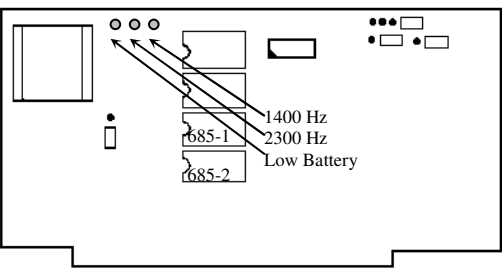
P7 – Parallel Printer
1 & 2   No Parallel Printer
2 & 3   Parallel Printer enabled
P10 – Computer
1 & 2   Computer enabled
2 & 3   No Computer

P8 – Extension Printer
1 & 2   Extension Printer enabled
2 & 3   No Extension Printer
P9 – Serial Printer
1 & 2   Serial Printer enabled pin 11 DTR
2 & 3   Serial Printer enabled pin 20 DTR
4 & 5   No serial Printer

Memory Board

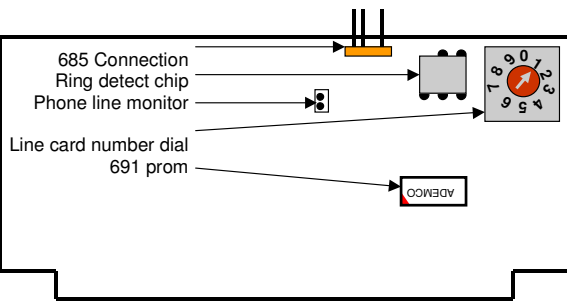

1400 Hz
2300 Hz
Low Battery
685-1
685-2

To adjust the handshake frequency, do the following:

1. Press and hold the "SYSTEM TEST" button
2. Press and hold the "SYSTEM RESET" button
3. Release the "SYSTEM RESET" button
4. Release the "SYSTEM TEST" button
5. The actual frequencies will show on the display, adjust as necessary
6. Press the "SYSTEM RESET" to clear the screen.

Update chips get inserted in the 3rd and 4th slots. If only one update chip is being used (previous to 4.8T), it goes into the 3rd slot.