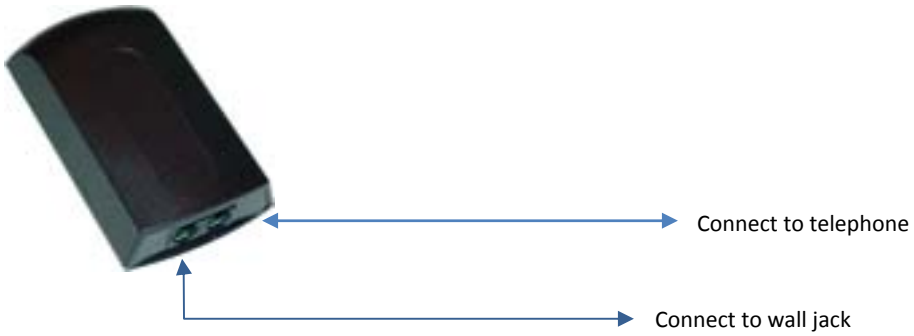
Installation

Install the AD350-SE Multi-Function Auto Dialer as shown in the below diagram. The AD350-SE is only work on standard analog phones. Do not install the dialer on digital type telephones. The AD350-SE is telephone line powered and has non-volatile memory so it will not lose its program when unplugged from the telephone line.



Program register quick reference

Register	Register description	Valid entries	Default data
01	Hotline dial number	1234567890*,#1,#2	empty
02	Speed dial numbers	1234567890*,#1,#2	empty
03	Remove all speed dial numbers		
04	Speed dial trigger length	1-4	2
05	Add number to restrict	12345678908*,#1	Empty
06	Remove restricted number	12345678908*,#1	
07	Remove all restricted numbers		
08	Add number to allow	12345678908*,#1	Empty
09	Remove allowed number	12345678908*,#1	
10	Remove all allowed calls		
11	Pulse digit handler	0-3	0
12	Off hook dial delay in milliseconds	1-3000	750
13	Mute dialing	0-1	0
14	DTMF on time in milliseconds	50-500	100
15	DTMF off time in milliseconds	50-500	100
16	On hook timing in milliseconds	150-2000	800
17	Off hook timing in milliseconds	100-2000	100
18	Interdigit timeout in milliseconds	500-10000	2000
19	Line drop timer in milliseconds	500-4000	2000

20	Auto answer ring count	0-30	0
70	Program password	12345678908*,#1	#0*
88	Restore default settings		
90	Compact database		
99	Exit programming		

Entering program mode

Lift the telephone handset dial the default programming password #0*, you will hear one beep. You are now in program mode and can enter any valid program register. If you enter the password incorrectly you will have to hang the phone up for the amount of time programmed in register 16 then lift the handset again and enter the program password again. To exit program mode dial 99 wait for beep and hang up. If you have previously programmed the dialer to dial when the handset is lifted you will have to wait for it to finish dialing before entering program mode. At any time you here 4 beeps this means a program entry was incorrect. You can also program the dialer remotely; more information is available on this in the section "*Programming the dialer from a remote location"*

Programming semantics

When programming the dialer use the following semantics: First you have to be in program, this is explained in section "*Entering program mode*".

1. *Dial register number and you will hear 1 beep .*
2. *Dial program data.*
3. *Dial ## to save register entry and you will hear 2 beeps.*

Example: 01 beep 12086391595 ## beep beep. This programs the hotline dial number with 12086391595.

Special character entries for dial out registers

#1 = #

#2 = 500ms pause.

In the following registers you can use the all of the above special character entries: 01, 02

Special character entries for allow and restrict registers

#1 = #

* = match any dialed digit.

In the following registers you can use the all of the above special character entries: 05, 08

Register 01 Hotline dial number

When this register is programmed with a number the dialer will dial it automatically when the telephone handset is taken off hook.

Scenario: You want the dialer to dial 208-639-1595 when the phone goes off hook.

How to:

1. 01 beep
2. 2086391595
3. ## beep beep

Scenario: You want the remove the hotline number you just put in.

How to:

1. 01 beep
2. ## beep beep

Register 02 Speed dial numbers

Before programming speed dial numbers you should program the desired speed dial trigger length in "*register 04*", this only has to be done one time. If you only have 10 numbers that you want to set up as speed dial numbers you could set the trigger length to 1 and use triggers 0-9. Speed dial numbers are dialed using the following semantics: ** followed by the speed dial trigger*. Program speed dial numbers using the following semantics: *"02" beep ", "speed dial trigger" beep, "number to dial", ## beep beep.*

Scenario: You want the dialer to dial 208-639-1595 when you dial *20

How to: This example assumes that register 04 is programmed with the default value of 2.

4. 02 beep
5. 20 beep
6. 2086391595
7. ## beep beep

Scenario: You want the remove the speed dial number you just put in.

How to:

3. 02 beep
4. 20
5. ## beep beep

Register 03 Remove speed dial numbers

With this register you can remove all existing speed dial numbers programmed in the dialer.

How to:

1. 03 beep
2. ## beep beep

Register 04 Speed dial trigger length

With this register you can set the speed dial trigger length.

Scenario: You want speed dial triggers to be in the range of 000 to 999

How to:

1. 04 beep
2. 3
3. ## beep beep

Register 05 Add number to restrict

Numbers programmed in this register will be restricted when dialed.

Scenario 1: You to restrict any call beginning with 976.

How to:

1. 05 beep
2. 976
3. ## beep beep

Scenario 2: You to restrict all 10 digit calls beginning with 208.

How to: * is used as a wild digit, it will match any digit that is dialed.

1. 05 beep
2. 208**********
3. ## beep beep

Register 06 Remove restricted number

With this register you can remove existing restrict numbers from the dialer.

Scenario: You want the remove the 976 restrict that was entered in the Scenario 1 above.

How to:

1. 06 beep
2. 976
3. ## beep beep

Register 07 Remove all restricted numbers

With this register you can remove all restricted numbers from the dialer.

How to:

1. 07 beep
2. ## beep beep

Register 08 Add number to allow

Numbers programmed in this register will be allowed when dialed.

Scenario: You want to allow calls to 911 or 411.

How to:

1. 08 beep
2. 911
3. ## beep beep
4. 08 beep
5. 411
4. ## beep beep

Register 09 Remove allowed number

With this register you can remove existing allowed numbers from the dialer.

Scenario: You want the remove the 411 allowed number.

How to:

1. 09 beep
2. 411
3. ## beep beep

Register 10 Remove all allowed numbers

With this register you can remove all allowed numbers from the dialer.

How to:

1. 10 beep
2. ## beep beep

Register 11 Pulse digit handler

With this register you can tell the dialer how to handle pulse digits when received.

Valid Entries:

0 = Process normally
1 = Ignore
2 = Restrict
3 = Dial out again as DTMF

Scenario: You want to use the dialer as a pulse to tone convertor.
How to:

1. 11 beep
2. 3
3. ## beep beep

Register 12 Off hook dial delay in milliseconds

This register comes into play when using the Hotline dial feature or the speed dial numbers. This register determines the delay from when the phone goes off hook to when it dials the hotline number. When a speed dial trigger is detected the dialer has to hang up the line to get dial tone back, the dialer delays this amount of time after getting dial tone back then dials the speed dial number.
Scenario: You want the dialer to delay 2000 milliseconds (2 seconds) before dialing hotline number.
How to:

1. 12 beep
2. 2000
3. ## beep beep

Register 13 Mute dialing

With this register you can instruct the dialer to mute when it dials so the user can not hear the tones when it dials out.
Valid Entries:

0 = No mute
1 = Mute

Scenario: You want the dialer to mute the tones when dialing out.
How to:

1. 13 beep
2. 1
3. ## beep beep

Register 14 Dtmf on time in milliseconds

This sets the duration of the dtmf tone of each digit the dialer dials.

Scenario: You want the dtmf tone on time to be 50 milliseconds.

How to:

1. 14 beep
2. 50
3. ## beep beep

Register 15 Dtmf off time in milliseconds

This sets the duration of the silence period between each dtmf tone the dialer dials.

Scenario: You want the dtmf tone off time to be 50 milliseconds.

How to:

1. 15 beep
2. 50
3. ## beep beep

Register 16 On hook timing in milliseconds

When the telephone receiver is placed on hook the dialer waits this amount of time before resetting for an new call.

Scenario: You want the on hook time to be 1000 milliseconds (1 second)

How to:

1. 16 beep
2. 1000
3. ## beep beep

Register 17 Off hook timing in milliseconds

When the telephone receiver is lifted off hook the dialer waits this amount of time before acknowledging a valid off hook.

Scenario: You want the off hook time to be 100 milliseconds.

How to:

1. 17 beep
2. 100
3. ## beep beep

Register 18 Interdigit timeout in milliseconds

This register comes into play with when restricting numbers. How this works: Each time a user dialed digit is detected it loads a timer with the value programmed in this register, if this timer times out before another digit is dialed it will check to see if the number was restricted, if so it will restrict the call. Be careful not to make this duration to short if using allows and restricts.

Scenario: You want interdigit time to be 3000 milliseconds (3 seconds)

How to:

1. 18 beep
2. 3000
3. ## beep beep

Register 19 Line drop timer in milliseconds

This register comes into play with using speed dial numbers. How this works: When a speed dial trigger is detected the dialer has to hang up the line to get dial tone back, this is the amount of time the dialer hangs up to get dial tone back..

Scenario: You want line drop time time to be 2000 milliseconds (2 seconds)

How to:

1. 19 beep
2. 2000
3. ## beep beep

Register 20 Auto answer ring count

If you want the dialer to answer automatically after x amount of rings you will program this register with a no-zero value. Programming this register with 0 disables auto answer. When the dialer answers you will hear 4 short beeps, at this time you have 10 seconds to enter the program password. After you have entered program mode you can program the dialer as normal, if you delay entering program data for more than 60 seconds the dialer will automatically hang up and exit program mode. Scenario: You want the dial to auto answer after 9 rings.

How to:

1. 20 beep
2. 9
3. ## beep beep

Register 70 program password

With this register you can change the default program password.

Scenario: You want to change the password to 5*78*

How to:

1. 70 beep
2. 5*78*
3. ## beep beep

Register 88 Restore default settings

With this register you can reload the dialer default settings. Important: After you enter 88## you must wait for the 2 confirmation beeps. Do not hang up before hearing the 2 confirmation beeps, doing so may corrupt the dialer database.

How to:

1. 88 beep
2. ## beep beep

Register 90 Compact database

If you have been adding and deleting a lot of entries in the allow, restrict and speed dial numbers you need to compact the database to get rid of the deleted files, this frees up the database memory. Important: After you enter 90## you must wait for the 2 confirmation beeps "*sometimes this may take up to a minut*e". Do not hang up before hearing the 2 confirmation beeps, doing so may corrupt the dialer database.

How to:

1. 90 beep
2. ## beep beep

Register 99 Exit programming

Dialing this register will exit programming mode no ## needed.