

WANCO

MESSAGE SIGN OPERATION

User's Manual

Version 1.0

February, 2017

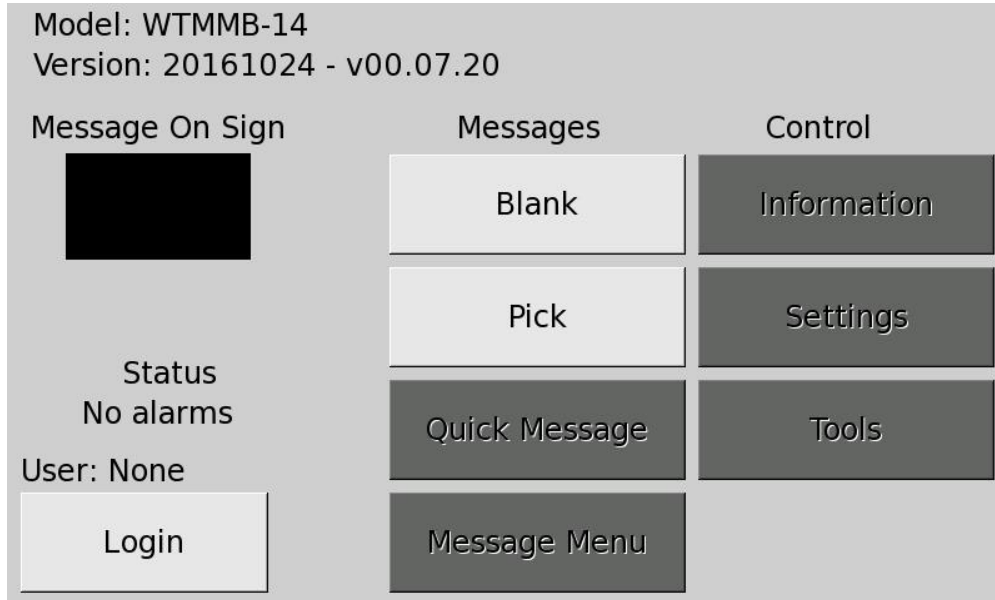
WANCO, INC.

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BASIC OPERATIONS

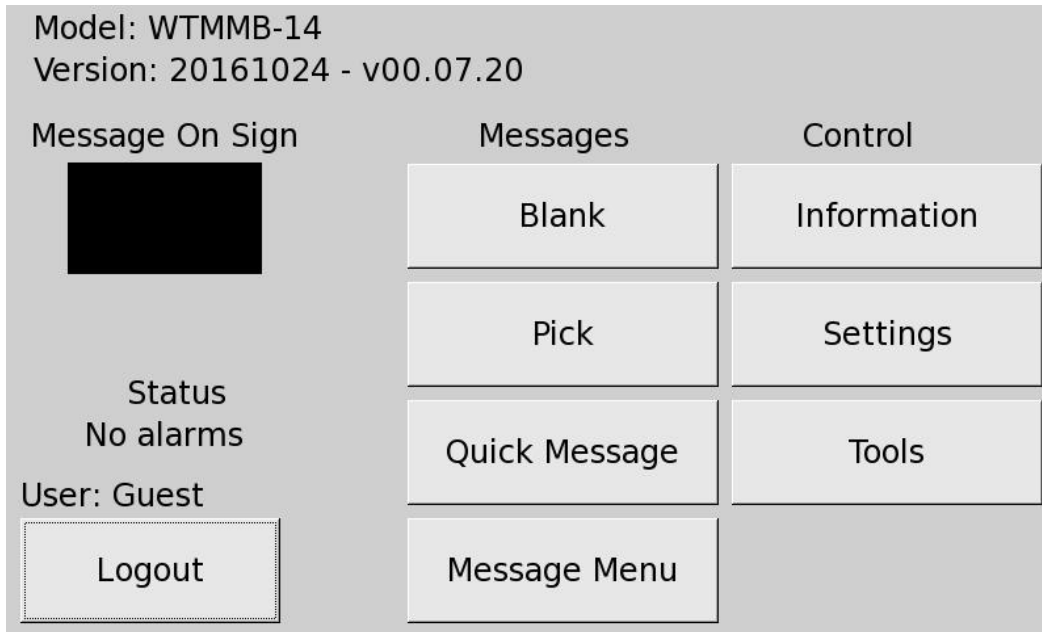
After opening the door of the In-Cabinet Controller and very lightly touching the screen, the following **Login Screen** appears:



Touch **Login** and the **Enter Password** keyboard appears.



If you have a new message sign, then you enter the **default password** set up by Wanco. It is recommended you change the default password. After you type the password hit **Enter**. **Main Screen**, shown below, will appear.



It displays the **Message On Sign**, showing currently blank screen. In addition, the **Status** information currently displayed says '**No alarms**'. It also shows that you logged in as **Guest**. Also note that **Login** button changed to **Logout** meaning that you are logged in and, at any time, by clicking that button can log out.

In this screen, in the **Messages** column, there are four buttons available:

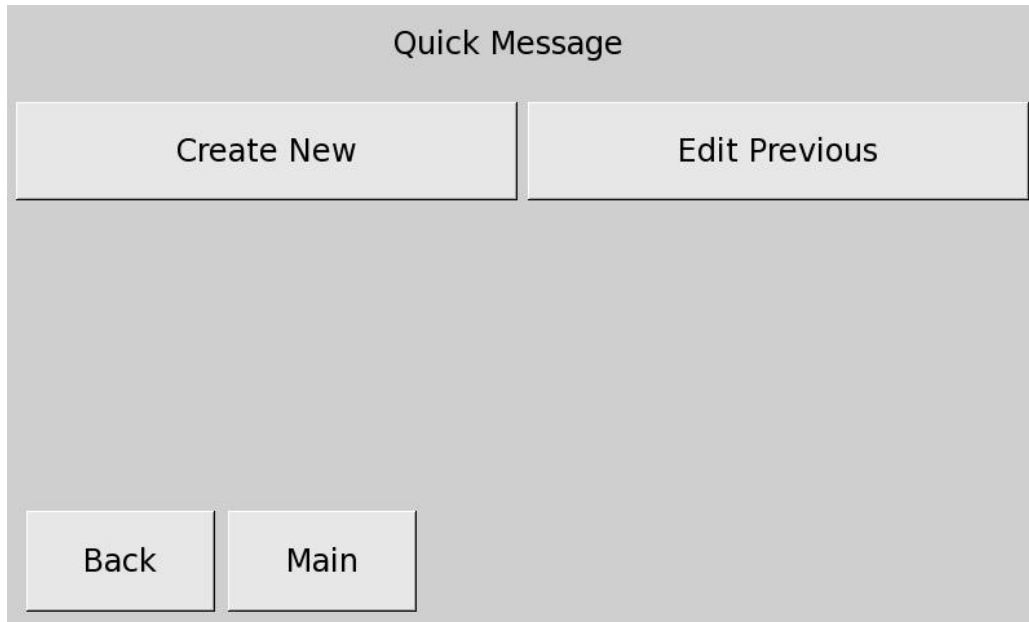
- **Blank** will turn the sign off;
- **Pick** is for selecting one of the pre-programmed messages;
- **Quick Message** opens the screen in which you can compose a message, always over the C100 message slot, that you want to put on board right now;
- **Message Menu** is used when you want to create many multiple messages and save them for constant use over and over or to be used in **schedules** or even in the **pick** process that we will see later.

In the **Control** column there are three buttons available:

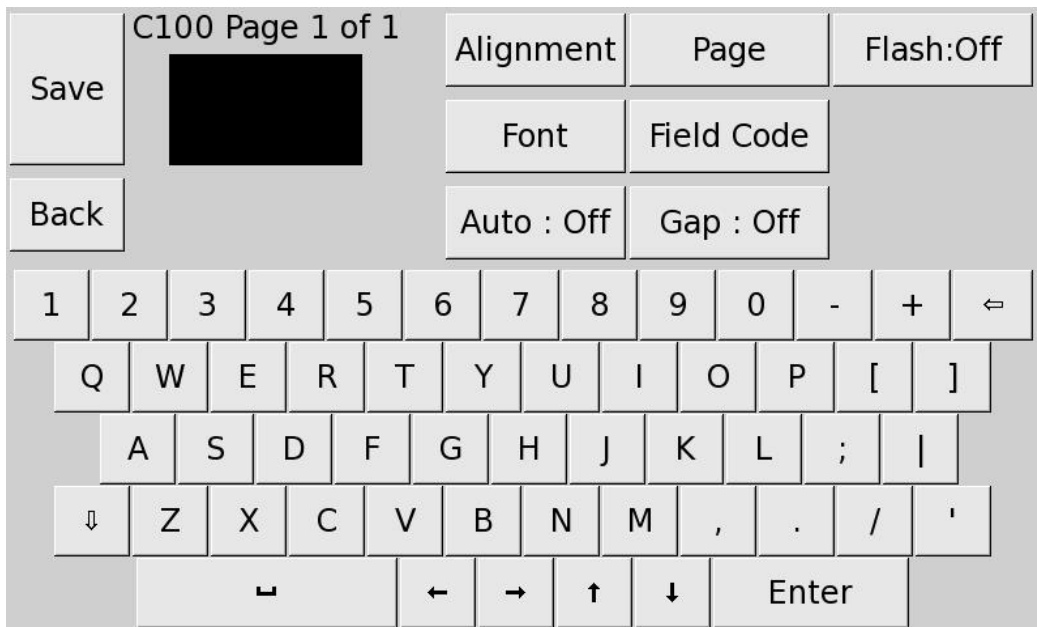
- **Information** tells you about the message sign battery voltage, solar voltage, alarms, everything related to the health of the message sign;
- **Settings**, underneath this button you have some dimmed buttons (controls available through your administrator-level password) and the button **Devices** that leads you to the **Devices** screen (explained below). The **Settings** screen is shown in the Settings section of this manual;
- **Tools**, underneath this button there is a dimmed button **Hardware Settings** (available for your administrator-level password and used to change features of the message sign), as well as several other tools explained in the **Tools** section of this manual.

Quick Message

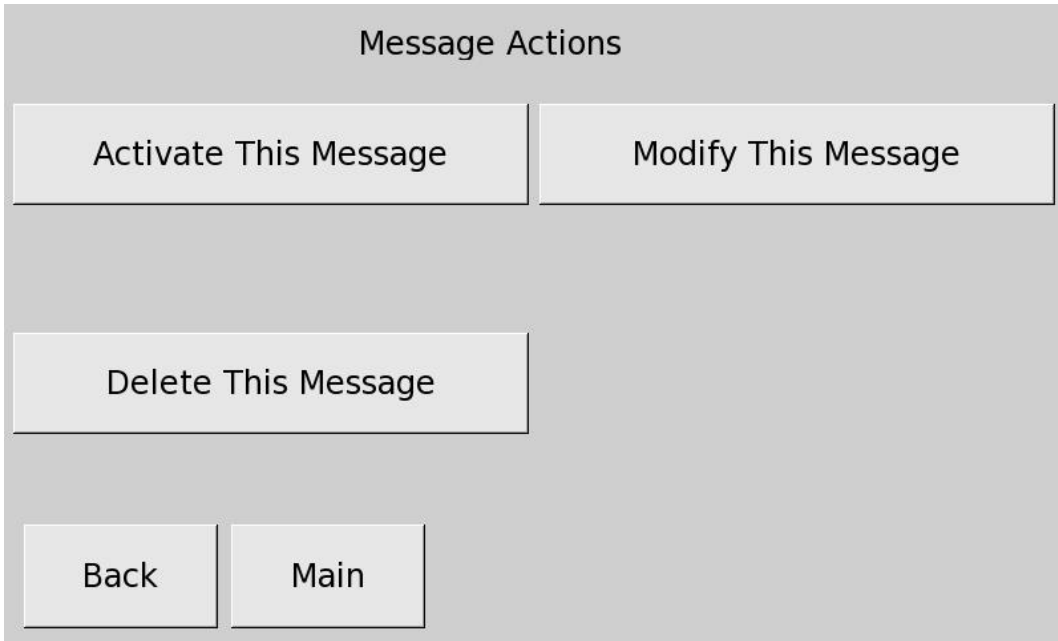
Suppose that you need to create a new message and display it on a sign to replace the message currently displayed. To do that, touch the **Quick Message** button and obtain the following screen:



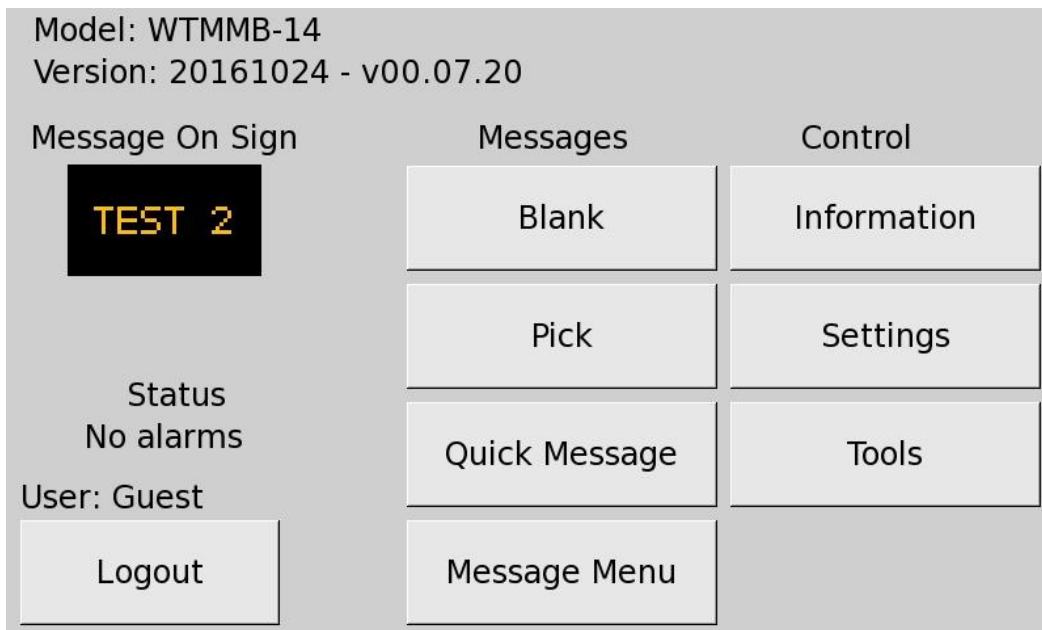
On this screen touch the **Create New** button and *the quick message composition screen* (shown below) comes up. **C100** is always the default message. On this screen it initially appears as a blank '**C100 Page 1 of 1**' and we can quickly insert any text such as **TEST 1**.



Then touch **Save**. The **Message Actions** screen appears.

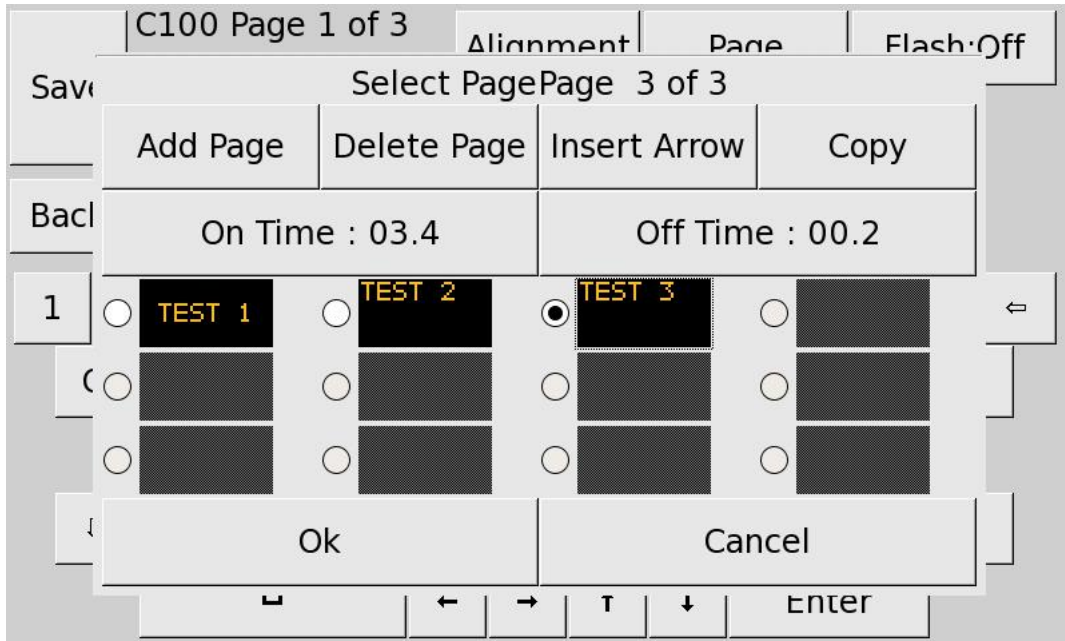


In this screen there are three actions buttons: Activate This Message, Modify This Message, and Delete This Message. Touch **Activate This Message** and you have one page on the sign right now. Let's create the second page. To do this touch **Quick Message** to obtain the **Quick Message** screen and now we go **Edit Previous**. We still have **Page 1 of 1**. So touch **Page** to obtain **Select Page** window. Touch **Add Page**, we get **Page2 of 2**, touch **OK** and obtain again *the quick message composition screen* for Page 2 of 2. Now compose, save, and activate the message composed, e.g., **TEST 2**.



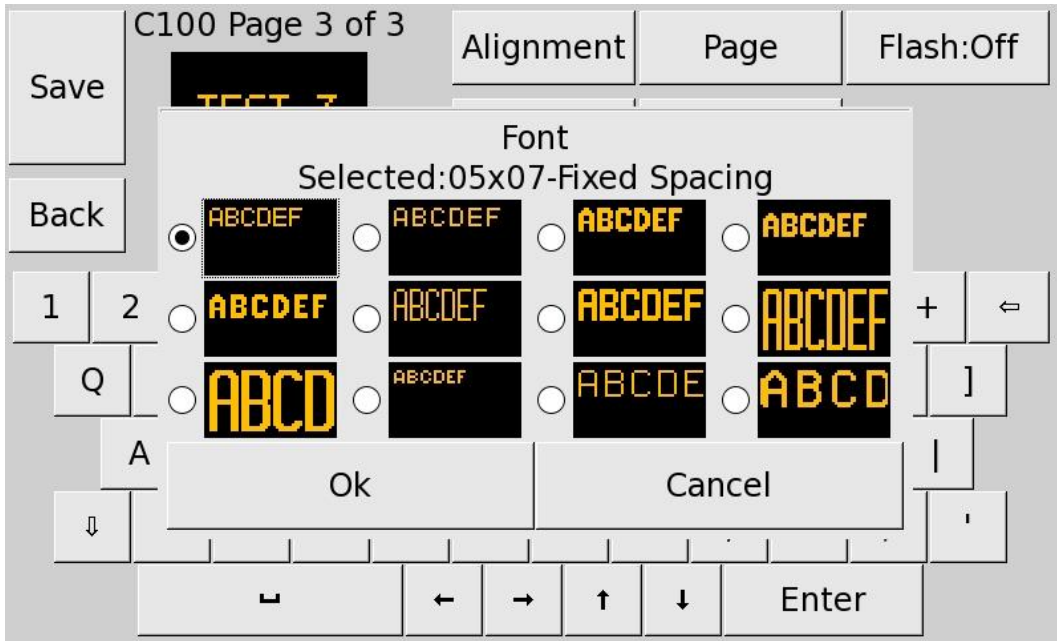
Following the procedure as the one outlined above, we can add yet another page and compose a message, e.g., **Test 3**. Suppose that now we want to edit page 3 of our current quick message. In the

Quick Message screen, touch **Edit Previous** and the *quick message composition screen* comes up. Touch **Page** and **Select Page** screen comes up. Select Page 3 (to be edited) as shown below.

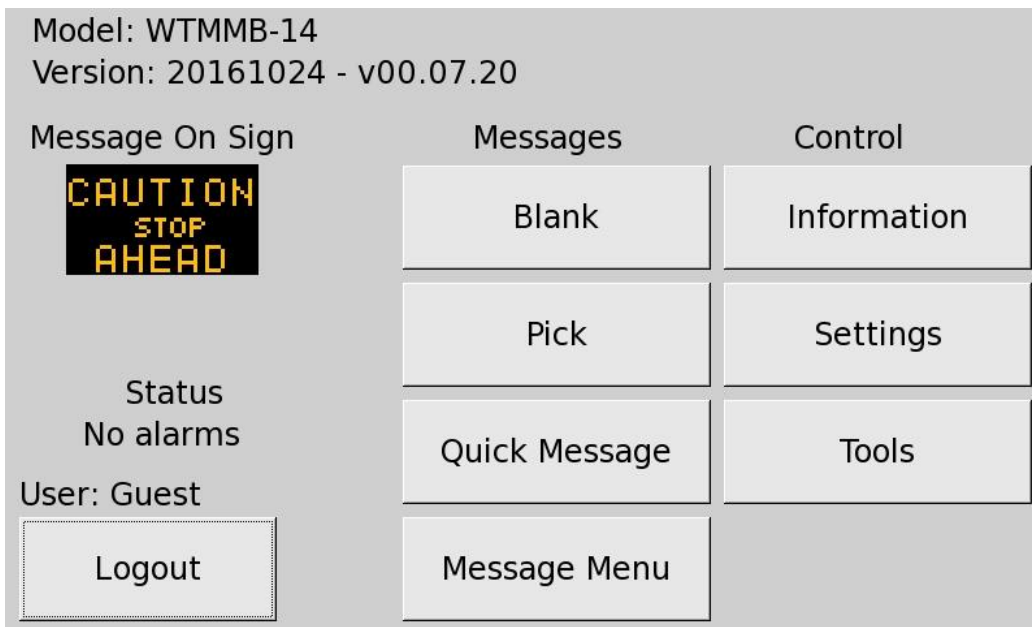


Touch **OK** to obtain the *quick message composition screen*. Touch **Alignment** and in the Alignment window select **Center** (the other choices are: **Left** and **Right**) and **Middle** (the other choices are: **Top** and **Bottom**). Touch **OK**, **Save**, and **Activate This Message** on the consecutive screens as they show up. Following the same procedure, you can align the text on each page of your multi-page message.

Suppose that you would like to modify Page 3. To do this you touch **Quick Message** and touch **Edit Previous**, then you go **Page**, select Page 3 and touch **OK**. After this you obtain the *quick message composition screen*. Using the tools available through this screen you can replace the previous single-line text by multi-line and multi-font text. Available fonts are shown below.

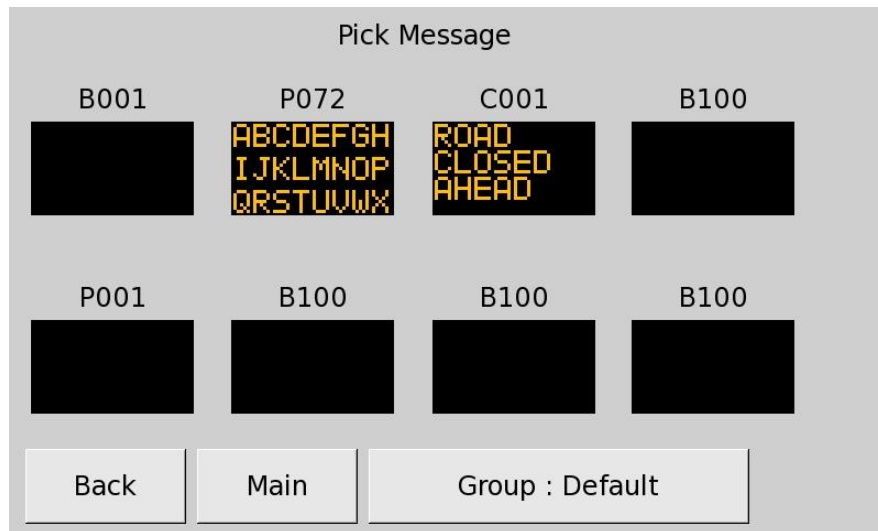


You also can choose either **flash-on** or **flash-off mode** for any of the lines of your message. Page 3, after the modification performed, is shown below.

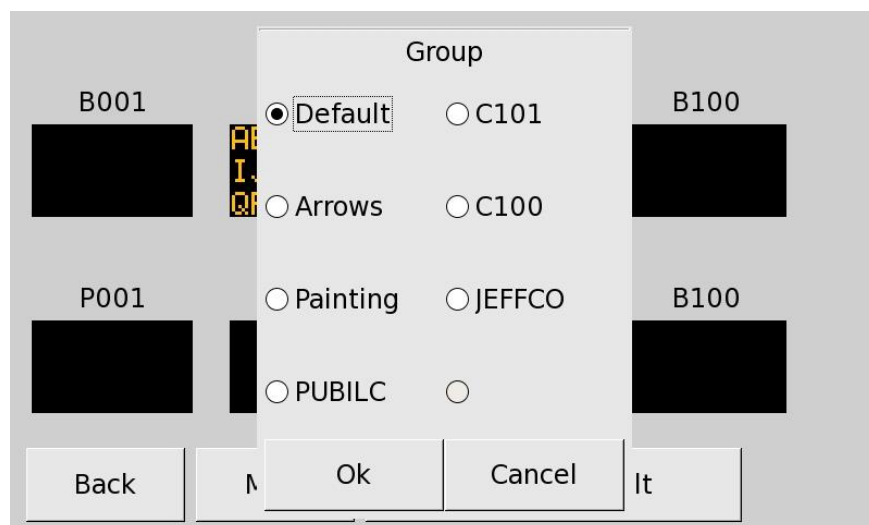


Pick Feature

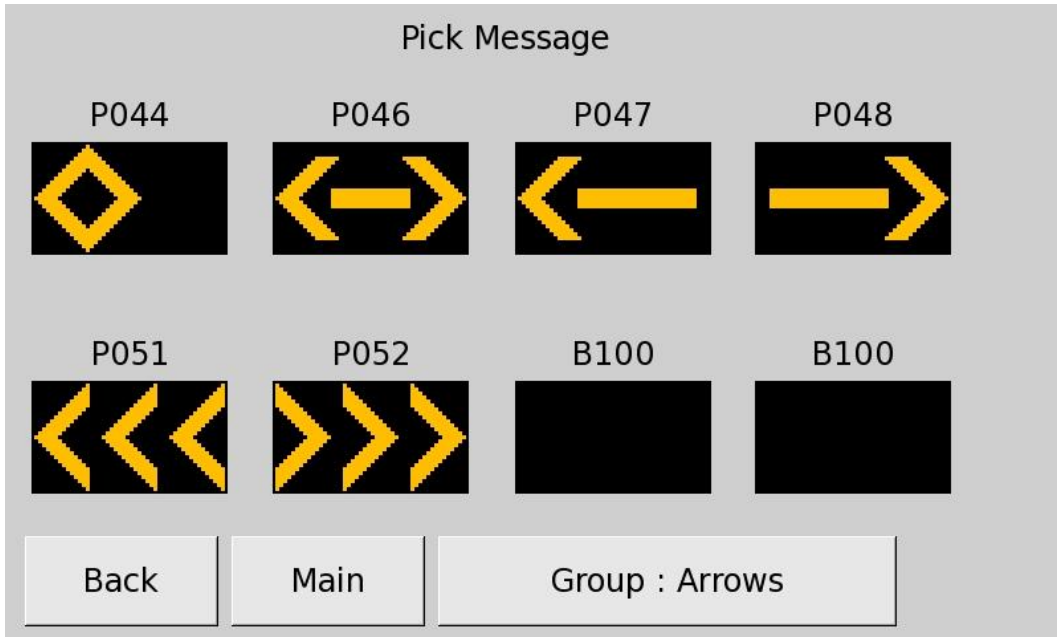
The pick feature command of the cabinet controller is a powerful tool that enables a quick selection of custom pre-programmed messages. It enables an untrained person to put one of the pre-programmed messages on the sign or can be useful for somebody who is going to use the same messages over and over again, e.g., painting companies might have their own painting messages, traffic control companies might have their own messages. So, when you want to use the same messages over and over, the pick feature offers a very useful tool to get your messages very fast on the sign without typing them again and again. Below we have the screen (obtained when you touch the **Pick** button) with the message group that is called a **Default** group. This group is created at the factory.



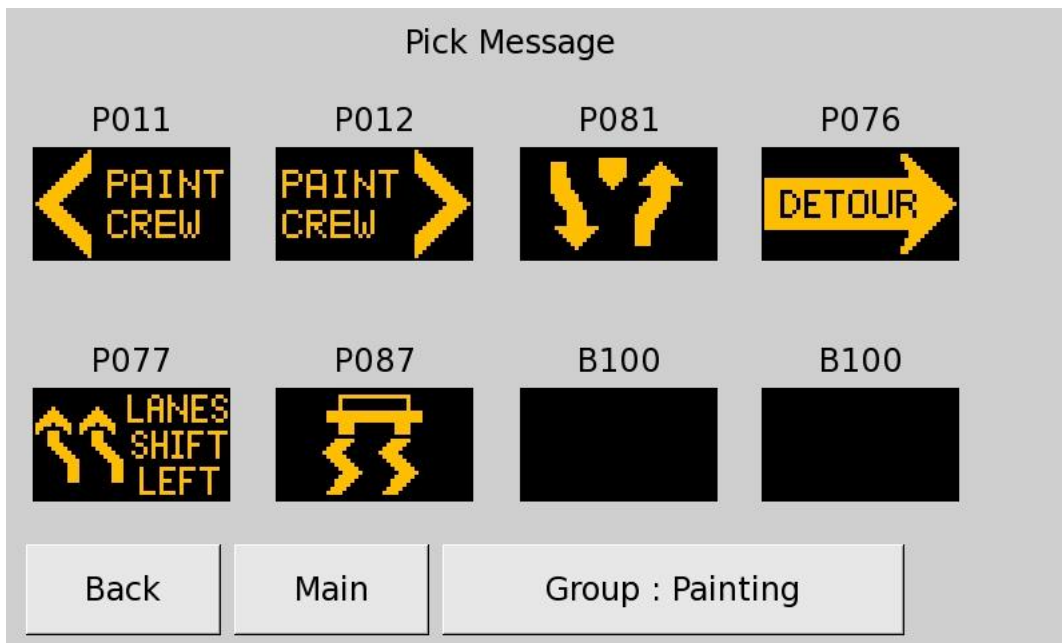
In this screen, when you touch **Group: Default**, you obtain the screen shown below in which you can select one of currently existing groups. You may have up to eight groups set up.



Select the group **Arrows** and obtain the screen shown below.



Hit **Group: Arrows**. Select the group **Painting** to obtain the screen shown below.



Click on any message in this group and this message will appear on the sign as shown below.

Model: WTMMB-14

Version: 20161024 - v00.07.20

Message On Sign



Status
Alarm: Display Modules

User: Guest

Logout

Messages

Blank

Pick

Quick Message

Message Menu

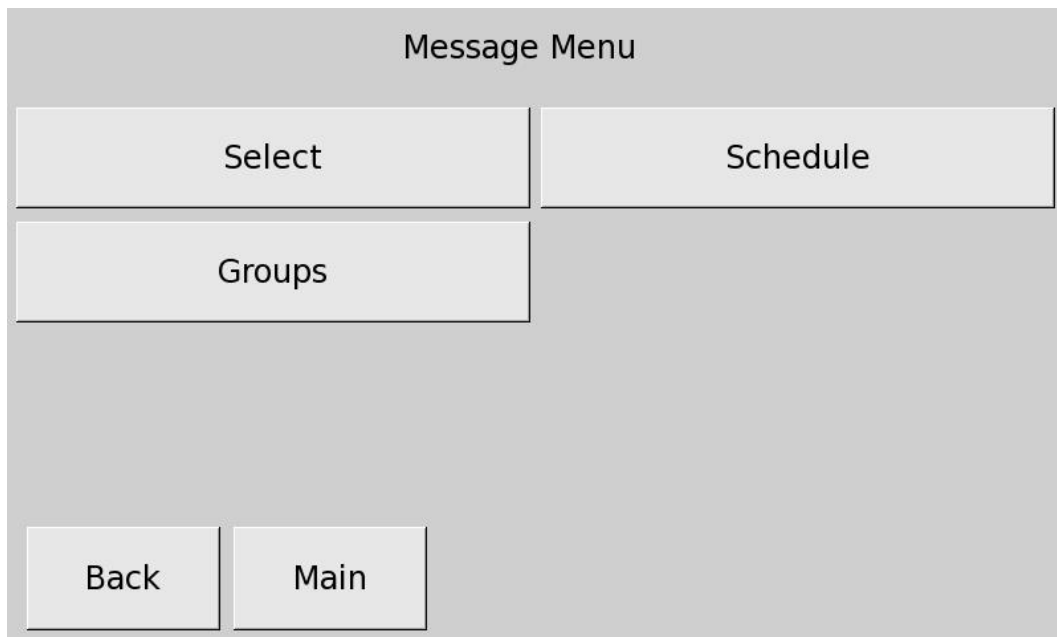
Control

Information

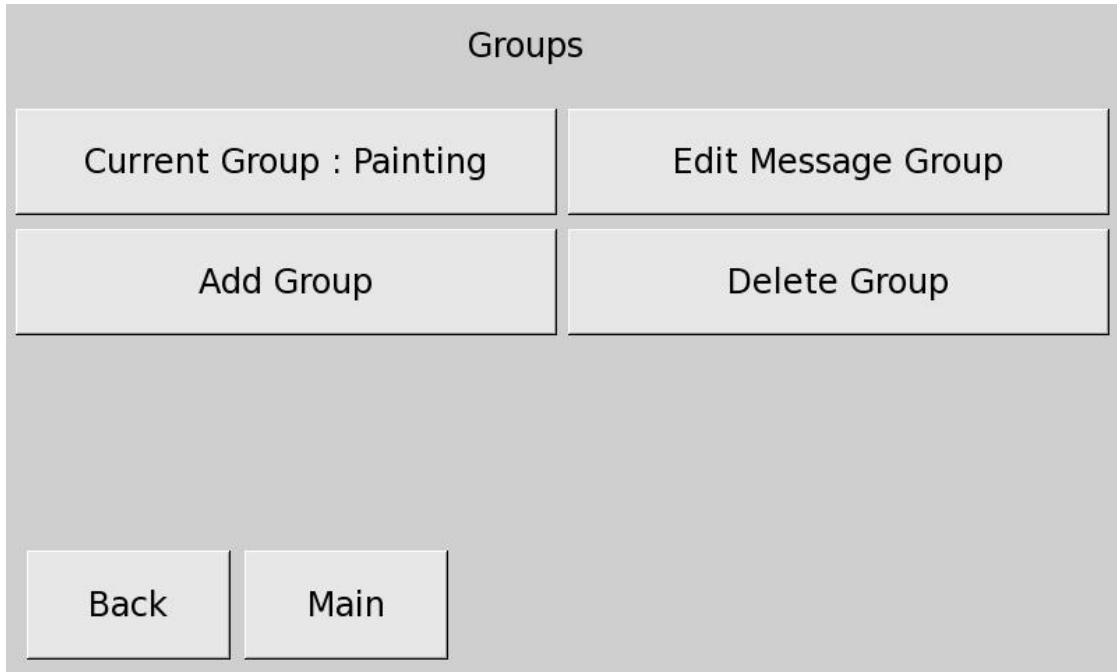
Settings

Tools

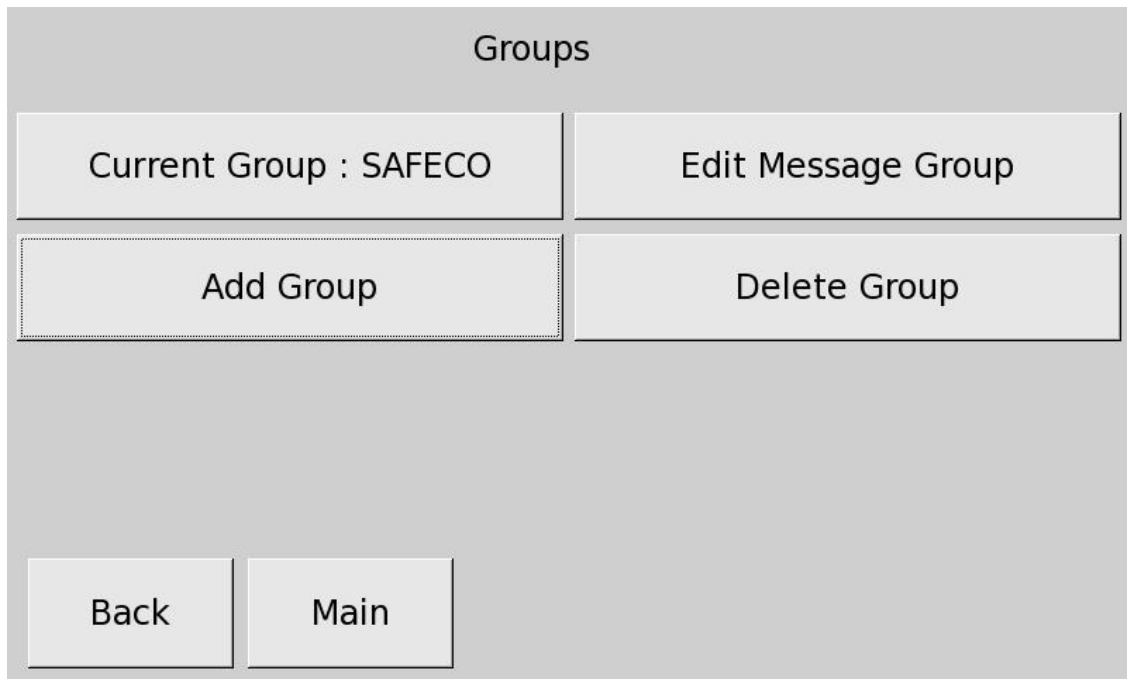
Touch **Message Menu** and obtain the **Message Menu** screen shown below.



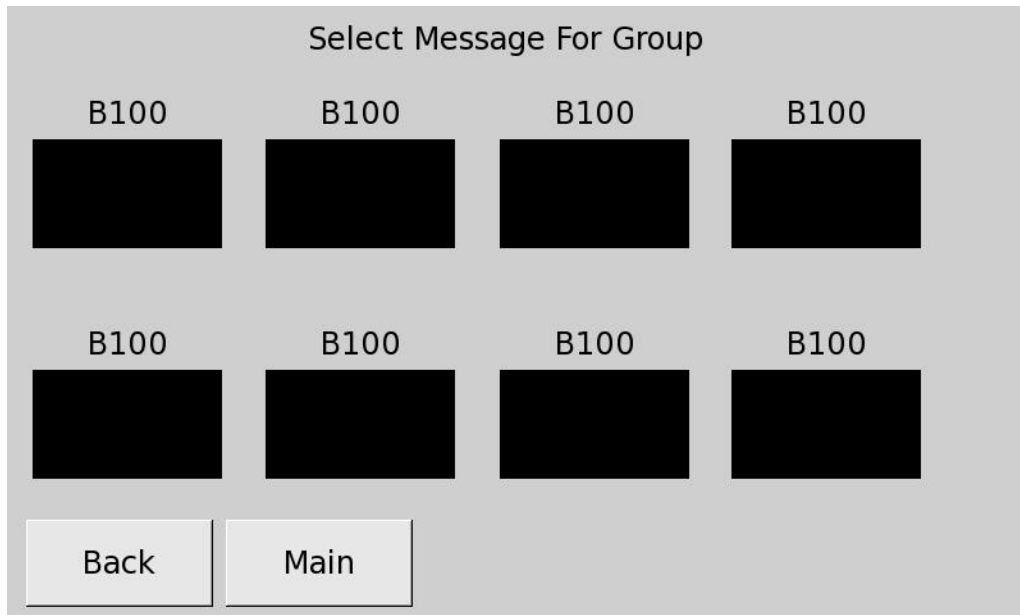
In this screen, we touch **Groups** to obtain the **Groups** screen shown below.



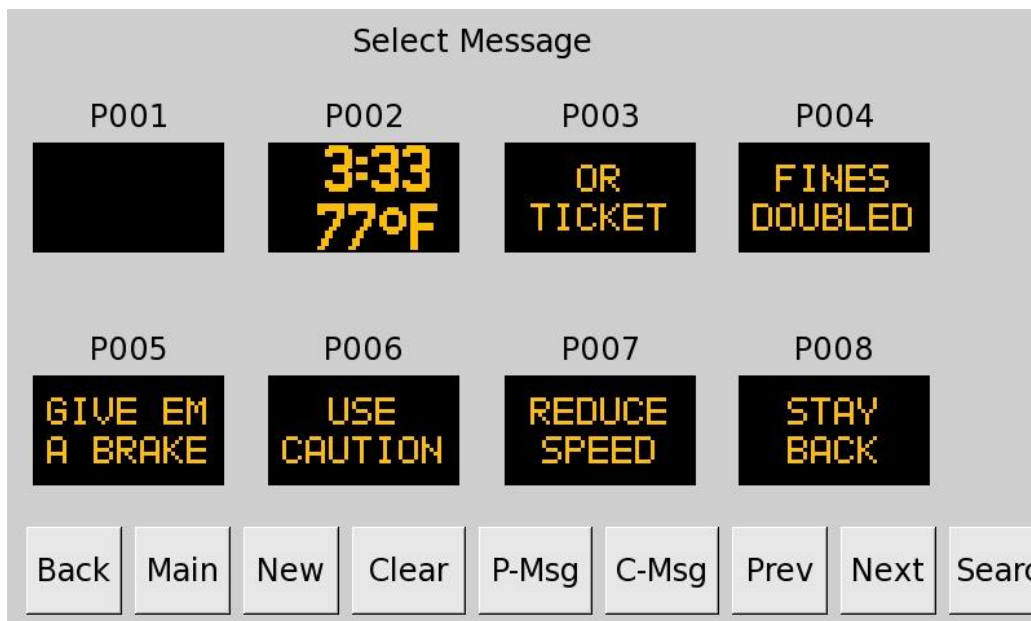
In this screen, you can open **Current Group**, **Edit Message Group**, **Delete Group**, and **Add Group**. When you touch **Add Group**, the **Enter New Group Name** screen opens. You enter any name, e.g., **SAFECO**, touch **Enter** and now your current group is **SAFECO**, as shown below.



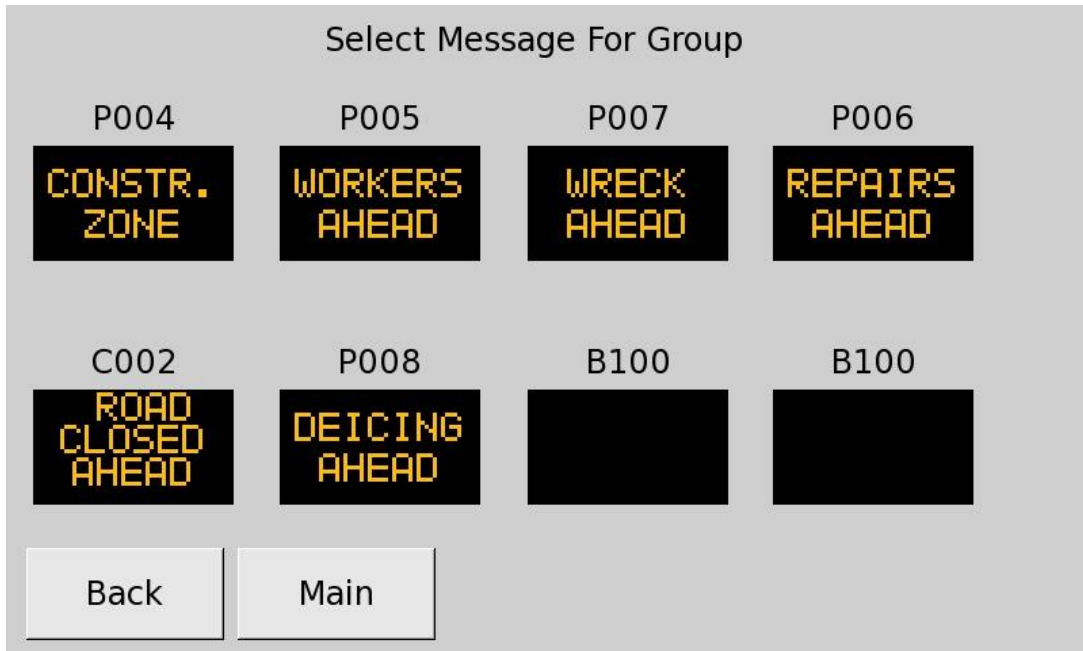
You touch **Edit Message Group** to obtain the following screen with 8 blank messages



This is the new **SAFECO** group with eight blank messages. In this screen, touch the first B100 and get the **Select Message** screen shown below.



In this screen you can find (using the buttons **P-Msg**, **C-Msg**, **Prev**, **Next**, **Search**) the messages that you want to include in your new group. Once you touch the desired message, the **Select Message For Group** screen appears with the previously blank space filled up with the selected message. In the same way, you insert next messages into your group. Also, using **New** button in **Select Message** screen you can compose any message that you would like to add to your group.



You still can add two more messages if you like. However, let's go back to **Main** menu and touch **Pick** button. The screen **Pick Message** appears, showing all **SAFECO** group messages. Touch message **P007** and the Main screen shows up with **P007** as the **Message On Sign**. Because it is two-page message, we repeat below the **Main** screen twice in order to show both pages.

Here is the first page of **P007**:



Here is the second page of **P007**:

Model: WTMMB-14
Version: 20161024 - v00.07.20

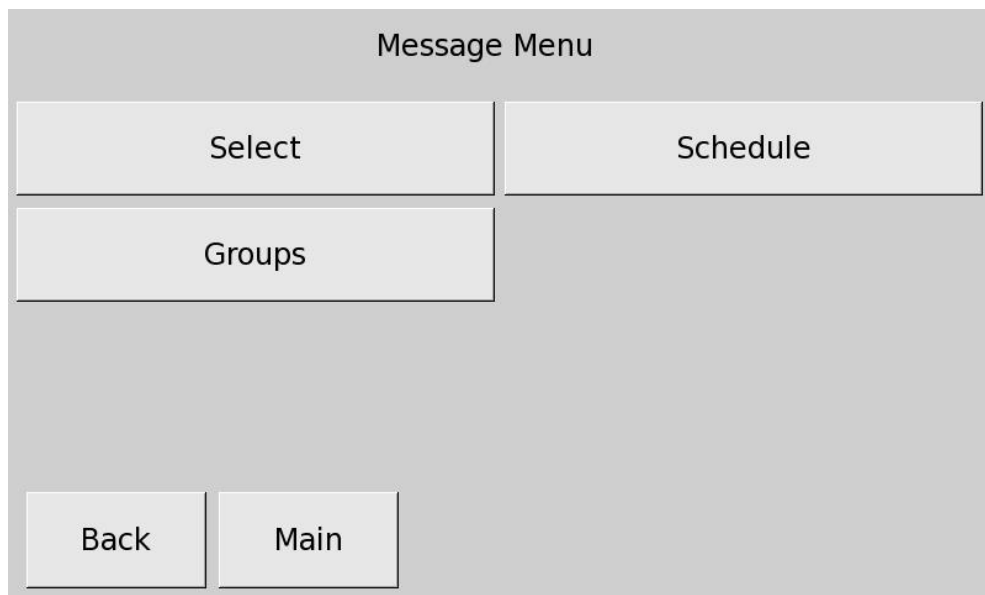
Message On Sign	Messages	Control
REDUCE SPEED	Blank	Information
Status No alarms	Pick	Settings
User: Guest	Quick Message	Tools
Logout	Message Menu	

Message Menu

We already know how to create any quick message C100 but you may be interested to have such message at different location and save it permanently in order to have many custom locations so you can store separate messages in and a message menu that allows you to access those and also access all the messages that Wanco has programmed into the sign for you. So let's go into **Message Menu** and see what is available. In the **Main** screen (shown below), touch **Message Menu**.

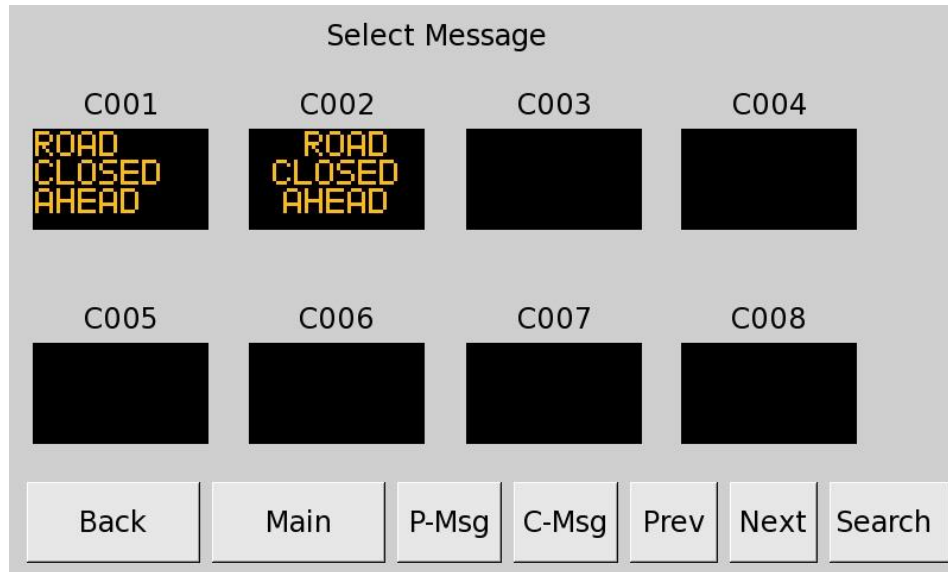


You obtain the screen shown below.

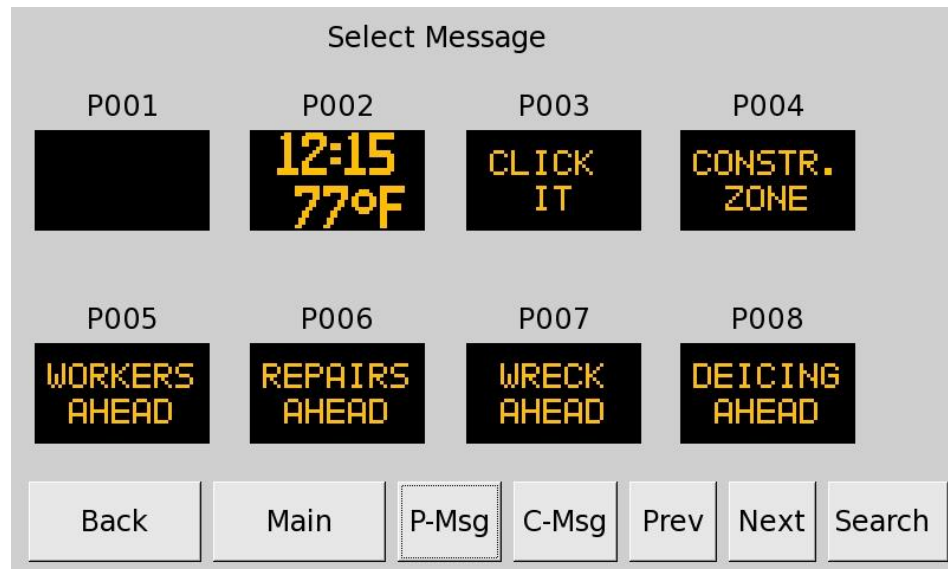


As you can see above, there are three buttons available: **Select** allows you to select any message that has been put in the sign and saved before by you or by Wanco; **Schedule** allows you to put a message on

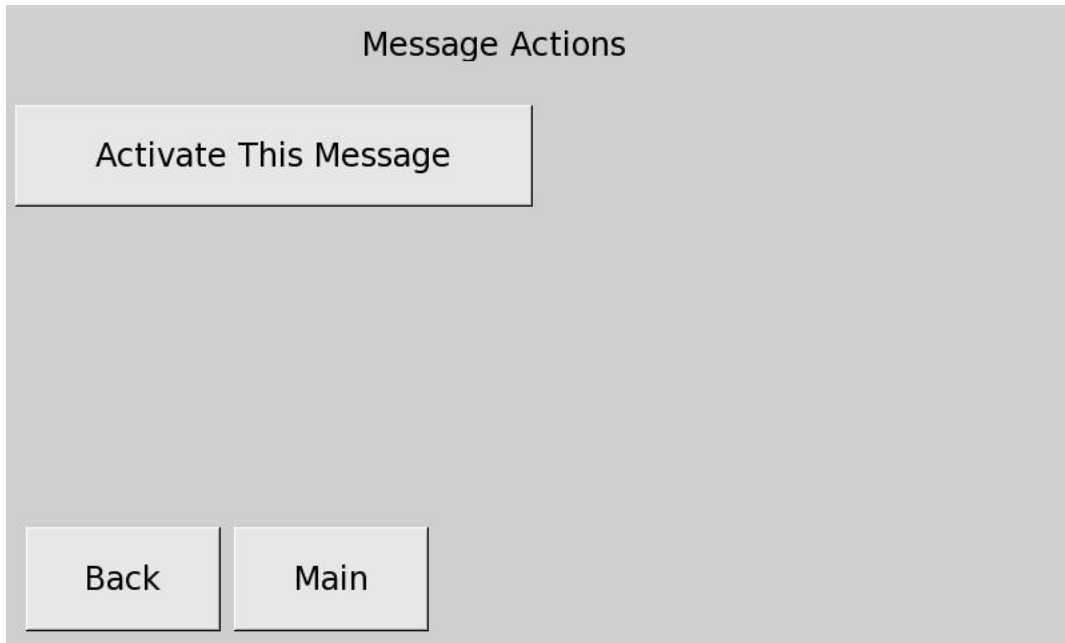
the message board automatically, so, e.g., if you want **Roadwork Ahead** from Monday to Friday but on Saturday and Sunday there is going to be a fair and you want a particular message for that, you can have that happen automatically without sending a man to the sign; and **Groups** allows you to group messages together by project or by geographic location so when someone tows a sign to Indiana the messages that are appropriate for Indiana projects are automatically there. So now let's go into these **Message Menu** functions and talk a little bit about the individual selections. Touch now the **Select** function and you obtain the following Select Message screen in which you can place your Custom Messages (C-Msg):



For the time being, we touch P-Msg button and obtain **Select Message** screen with pre-programmed messages as shown below. Using **Prev** and/or **Next** buttons (as explained below), we can reach any P-Msg. In addition, if we know the message code, we can get to it using the **Search** button.



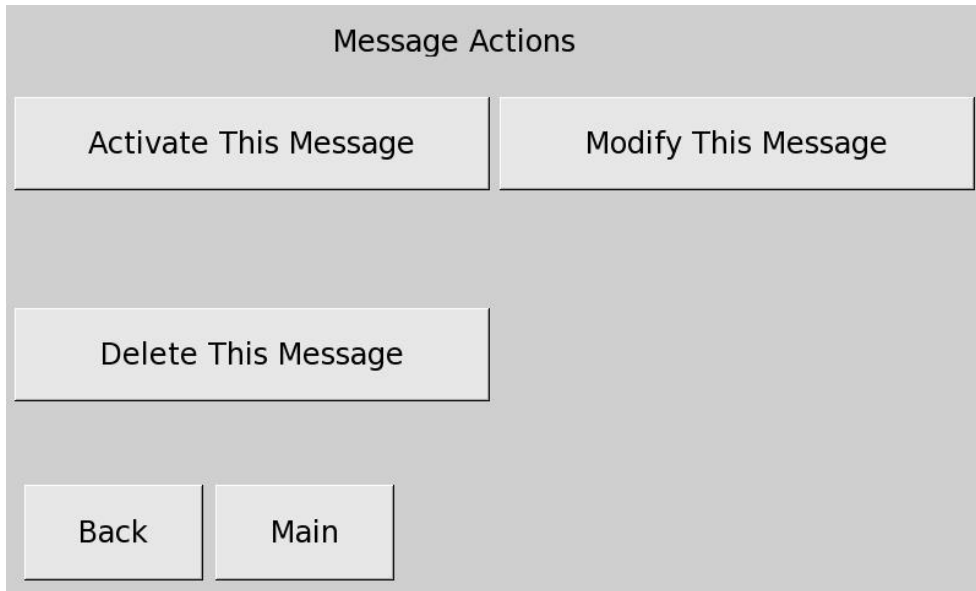
We now have access to hundred and fifty or so messages that you can just touch one of these to put it on the screen. Suppose that we want the message P005 on the sign. We touch this message in the current Select Message screen and the **Message Actions** screen comes up (as shown below).



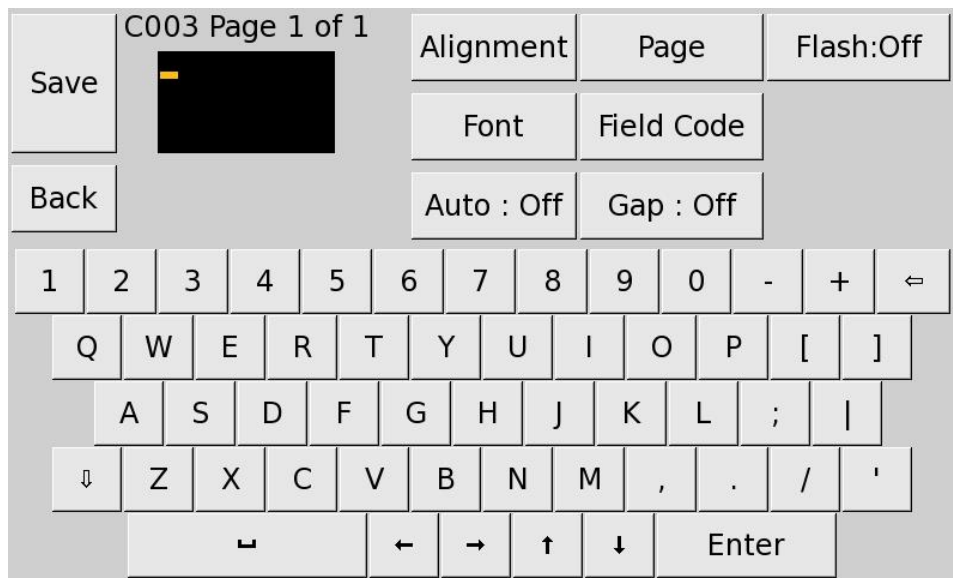
After you touch **Activate This Message**, the selected message appears as **Message On Sign** in the **Main** screen shown below.



If we go back to any **Select Message** screen, e.g., the screen with **C-messages**, it shows two rows of 4 messages with consecutive numbers. When we now hit **Next**, the second row moves up becoming the first row with the message numbers unchanged, and in the second row will display 4 custom messages from memory with the consecutive numbers. Touching the **Prev** button does just the opposite. Suppose that you would like to modify or to insert a new **C-message** and you touched message **C003** (currently blank). The **Message Actions** screen comes up. In this screen (shown below), you touch **Modify This Message**.



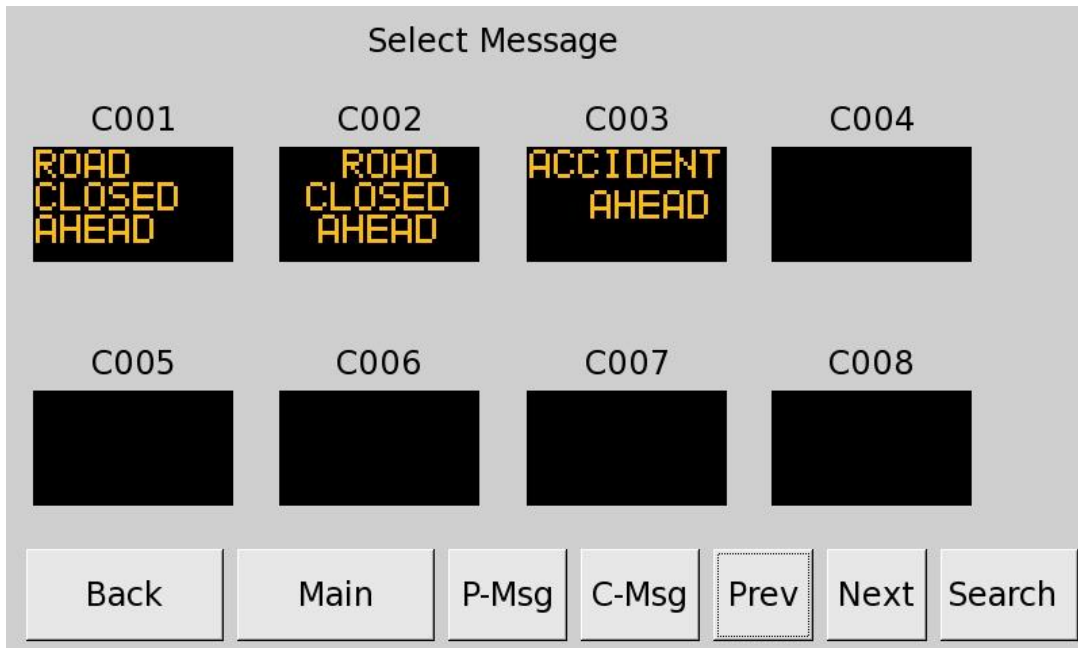
The message composition screen comes up with message code **C003** as shown below.



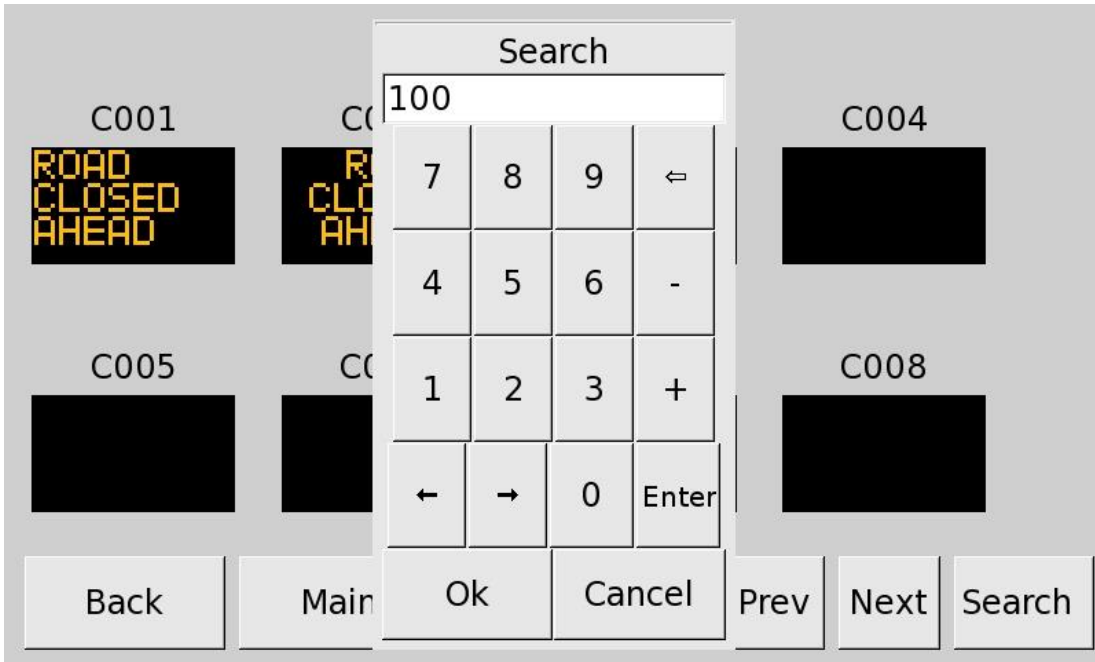
Type new message as below and touch **Save**.



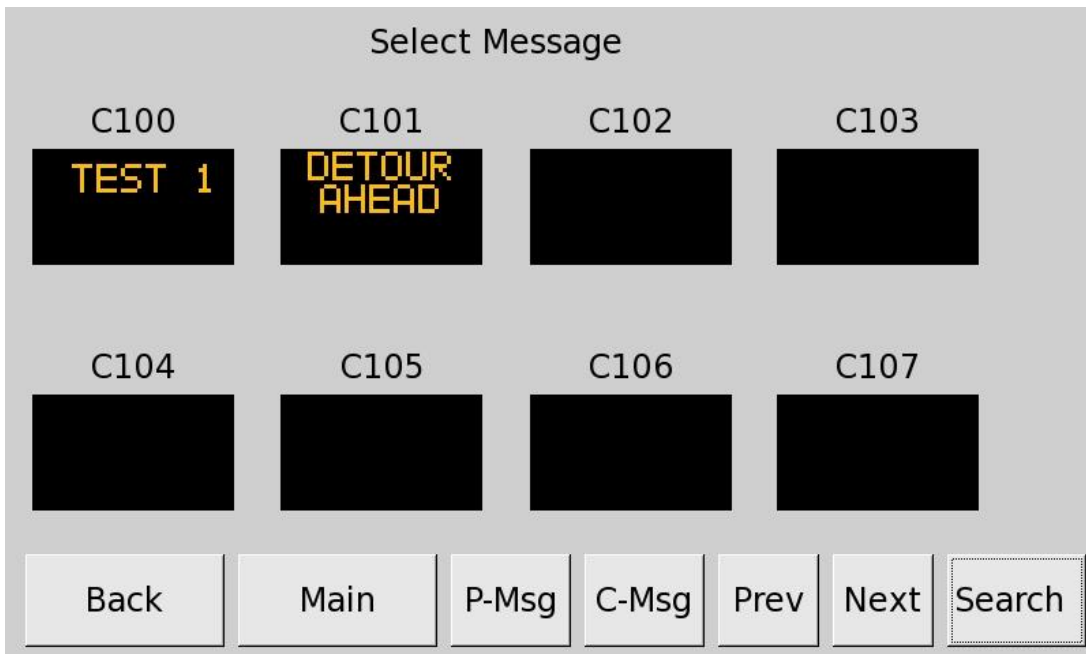
Your new **C003** message is added as shown below.



Also, recall that we previously composed a quick message and it took a dedicated slot **C100**. If we want to use this message again, we can touch **Search** button in the (shown above) **Select Message** screen and the **Search** window comes up as shown below, in which we write in **100** and touch **OK**.



Our **C100** message comes up in the **Select Message** screen shown below and it is selectable/can be activated from this screen by touching. Note that this screen shows 8 slots with C-messages from C100 to C107. Thus, the **Search** button can be used to reach groups of messages starting with C030, C040,..., etc. In these 30-series or 40-series messages, we can preload messages associated with specific tasks, specific traffic conditions, specific projects, etc.



Scheduling

We **login** and we go to **Message Menu**. We touch **Schedule** to obtain the screen shown below.

Scheduling : currently OFF
Thu 29 Dec 2016 12:51:14 PM

Schedule : Off	Day Plan #1
Day Plan #2	Day Plan #3

Back Main

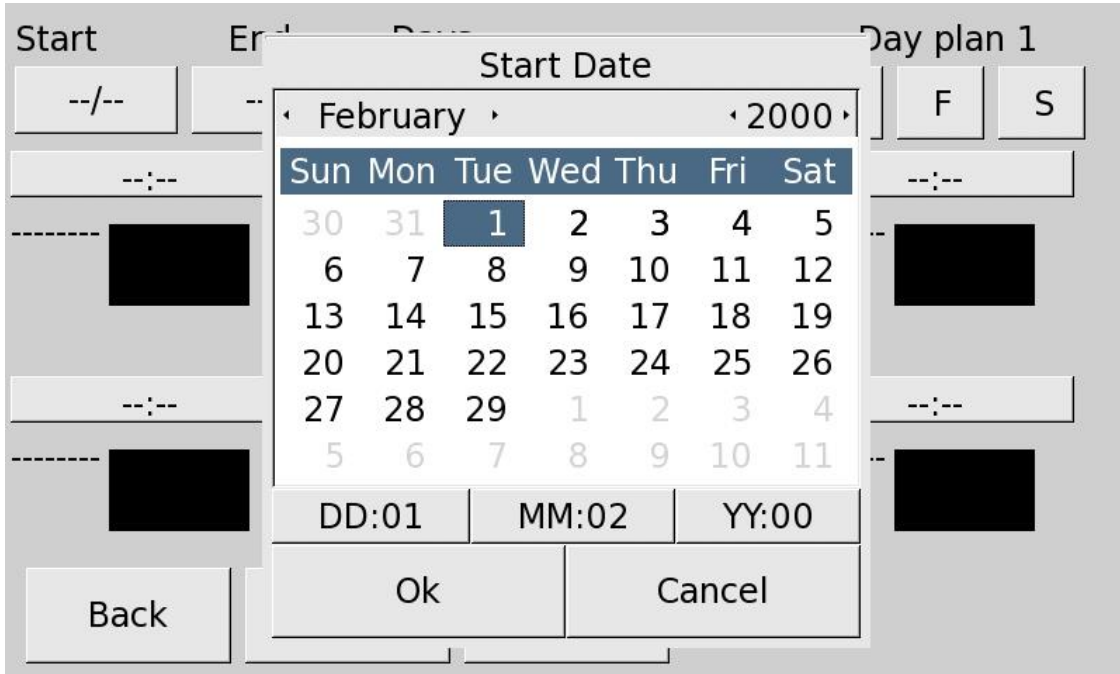
The first thing before we start is to make sure that the day of the week, the date, and the time is correct on the sign. We will work on **Day Plan #1** to illustrate how to set that up and how it might be used. We have already pre-programmed some messages in there to make our explanation shorter and showing the essential points. As shown below **Day Plan #1** has everything blank.

Start End Days Day plan 1

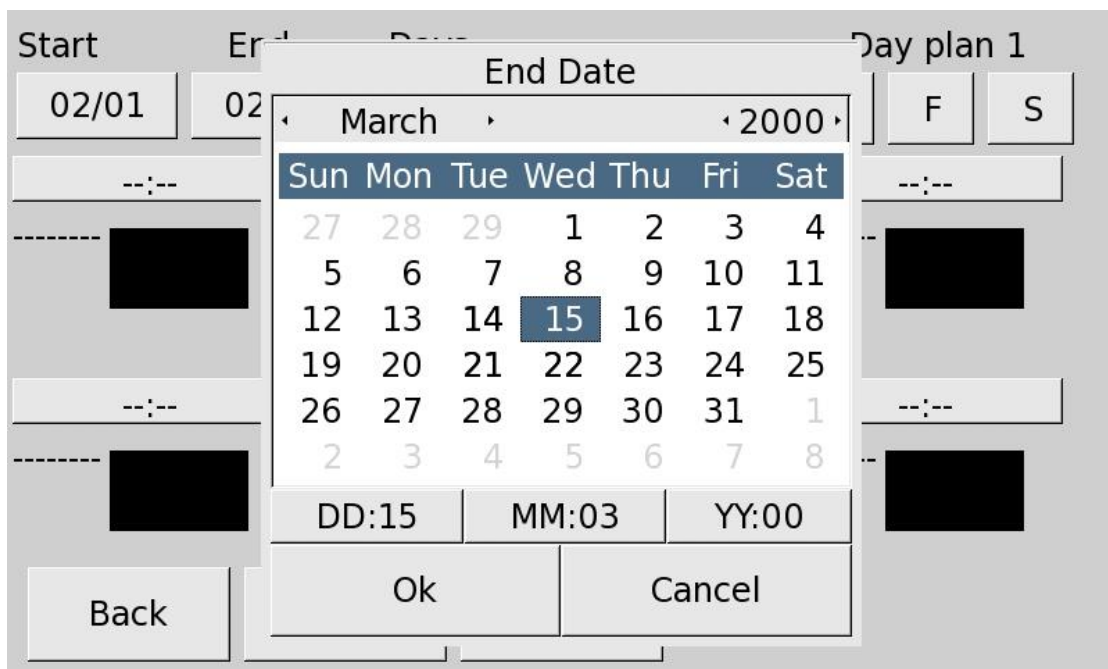
--/--	--/--	S M T W	T F S
--:--	--:--	--:--	--:--
----- ■	----- ■	----- ■	----- ■
--:--	--:--	--:--	--:--
----- ■	----- ■	----- ■	----- ■

Back Main Erase : N

We touch the empty box of **Start** date (that appears selected) and on the **Day plan 1** screen the calendar appears as shown below. By touching the screen, we select February 1 as the start day.



Touch **OK** and the required **Start** date is entered as shown below. Note that the **End** date automatically appears but is not our required date. So now, in the same way, we enter the required **End** date. As shown below, we entered March 15 as the **End** date of the **Day Plan #1**.



Click OK and you can see the start and the end date for **Day Plan 1** set.

Start	End	Days				Day plan 1		
02/01	03/15	S	M	T	W	T	F	S
--:--	--:--	--:--				--:--		
----- [Black Box]			----- [Black Box]			----- [Black Box]		
--:--	--:--	--:--				--:--		
----- [Black Box]			----- [Black Box]			----- [Black Box]		
Back	Main	Erase : N						

Let us assume that for our particular construction zone we are going to run our messages Monday through Friday. So, we have to exclude Saturday and Sunday from our schedule by touching the buttons representing these days on the screen. The result of our actions performed so far is shown below.

Start	End	Days				Day plan 1		
02/01	03/15	S	M	T	W	T	F	S
--:--	--:--	--:--				--:--		
----- [Black Box]			----- [Black Box]			----- [Black Box]		
--:--	--:--	--:--				--:--		
----- [Black Box]			----- [Black Box]			----- [Black Box]		
Back	Main	Erase : N						

We have two pre-programmed 3-page(**Custom**) messages:

C004: MONDAY THRU FRIDAY; 9:00 AM thru 5:00 PM; ROAD WORK PLANNED

and

C005: WORK ZONE ACTIVE; REDUCE SPEED AHEAD; SPEED LIMIT 55 MPH

Obviously, every Monday thru Friday from 02/01 till 03/15 the message **C004** has to be displayed from **0:00** (midnight), to be followed by message **C005** from **9:00 AM** that is to be followed by the message **C004** from 17:00 (or 5:00 PM). Please note that we use military clock when setting up the schedule (no AM or PM that usually appear on the display but may also be represented in the military format). As shown by the consecutive screens, we set up **00:00** (above the first blank) as the Start Time for message **C004**, then we touch the blank screen attached to **B001** that results in appearance of the screen with pre-programmed C-messages that contains the messages to be used in our construction zone. We touch the display with the message **C004** and the **Day Plan 1** screen appears with the message B001 replaced by C004. We repeat the same procedure to replace the two other blank messages with the messages C005 and C004 and we set up their Start Times as well. All our (self explanatory) actions, performed as explained above, are illustrated below by the consecutive screens, shown in respective order, and without any additional comments.

Start	End	Days	Day plan 1
02/01	03/15	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W	<input type="checkbox"/> T <input type="checkbox"/> F <input checked="" type="checkbox"/> S
00:00	--:--	--:--	
B001			
--:--	--:--	--:--	
Back	Main	Erase : N	

C001 ROAD CLOSED AHEAD	C002 ROAD CLOSED AHEAD	C003 ACCIDENT AHEAD	C004 9:00 AM THRU 5:00			
C005 REDUCE SPEED AHEAD	C006	C007	C008			
Back	Main	P-Msg	C-Msg	Prev	Next	Search

Start	End	Days	Day plan 1
02/01	03/15	S M T W T F S	
00:00	--:--	--:--	--:--
C004 ROAD WORK PLANNED		-----	-----
--:--	--:--	--:--	--:--
-----	-----	-----	-----
Back	Main	Erase : N	

Start	End	Days	Day plan 1		
02/01	03/15	S M T W	T	F	S
00:00	09:00		--:--		
C004 9:00 AM THRU 5:00	B001		-----		
--:--	--:--		--:--		
-----	-----		-----		
Back	Main	Erase : N			

Start	End	Days	Day plan 1		
02/01	03/15	S M T W	T	F	S
00:00	09:00		--:--		
C004 MONDAY THRU FRIDAY	C005 WORK ZONE ACTIVE		-----		
--:--	--:--		--:--		
-----	-----		-----		
Back	Main	Erase : N			

Start	End	Days	Day plan 1
02/01	03/15	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W	<input type="checkbox"/> T <input type="checkbox"/> F <input checked="" type="checkbox"/> S
00:00	09:00		--:--
C004 MONDAY THRU FRIDAY	C005		
--:--			--:--
Back	Main	Erase : N	

Start Time

HH:17 MM:00 SS:00

Ok Cancel

Start	End	Days	Day plan 1
02/01	03/15	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> T <input type="checkbox"/> W	<input type="checkbox"/> T <input type="checkbox"/> F <input checked="" type="checkbox"/> S
00:00	09:00		17:00
C004 MONDAY THRU FRIDAY	C005 WORK ZONE ACTIVE		C004 MONDAY THRU FRIDAY
--:--	--:--		--:--
Back	Main	Erase : N	

At this point, our **Day Plan #1** is completed and will automatically control the sign display. Let us now display message C004 all day every Sunday and Saturday from 01/01 till 02/15. To program this task, we

will open **Day Plan #2** and follow the same procedure as explained above. The result (that does not require any additional comments) is shown below. The process of turning **ON** the **Day plan 1** is also illustrated on the next page without any comments.

Start	End	Days	Day plan 2
02/01	03/15	S <input type="radio"/> M <input checked="" type="radio"/> T <input checked="" type="radio"/> W <input checked="" type="radio"/> Th <input checked="" type="radio"/> F <input checked="" type="radio"/> S <input type="radio"/>	
00:00	--:--	--:--	--:--
C004	ROAD WORK PLANNED	-----	-----
		-----	-----
--:--	--:--	--:--	--:--
-----	-----	-----	-----
Back	Main	Erase : N	

Now, we can activate the schedule. We go back to the **Main** screen, touch **Message Menu**, touch **Schedule**, touch **Schedule: Off**, select **On** and touch **OK**. Result of this sequence of actions is shown below.

Scheduling : currently Off
Thu 10 Feb 2000 04:58:59 PM

Schedule : Off	Schedule	Day Plan #1
	<input checked="" type="radio"/> Off	
Day Plan #2	<input type="radio"/> On	Day Plan #3
	Ok	Cancel
Back	Main	

Scheduling : currently On, Plan 1

Thu 10 Feb 2000 05:01:02 PM

Schedule : On

Day Plan #1

Day Plan #2

Day Plan #3

Back

Main

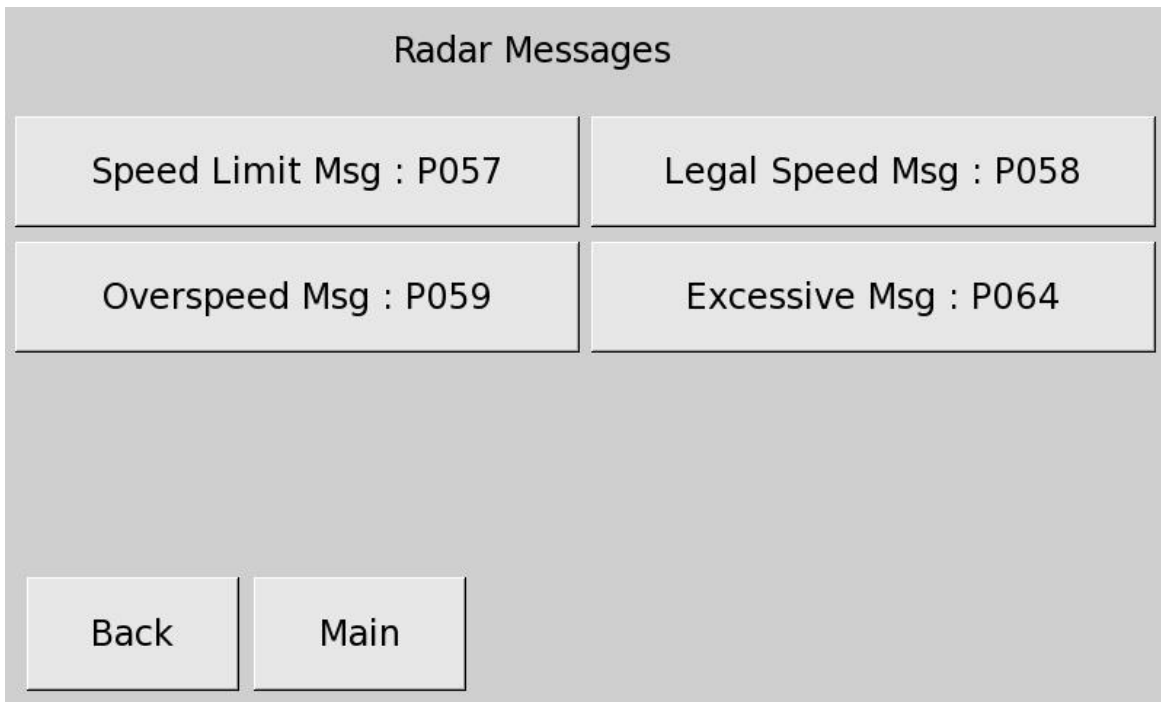
Radar Messages

We are going to explain how the message logic works when we are using radar and message sign. In the **Main** screen, touch **Settings**, then on the next screen that comes up touch **Devices** and on the next screen touch **Radar Settings**. In the **Radar Settings** screen that comes up, touch **Radar Mode: Off**. The superimposed **Radar Mode** window comes up. Select **Capture** mode and touch **OK**. The **Radar Settings** screen that comes up (and is shown below) confirms **Radar Mode: Capture** and has a button **Advanced Options....** Touch it and obtain the screen titled **Radar Advanced Settings: Type=Wanco** shown below.

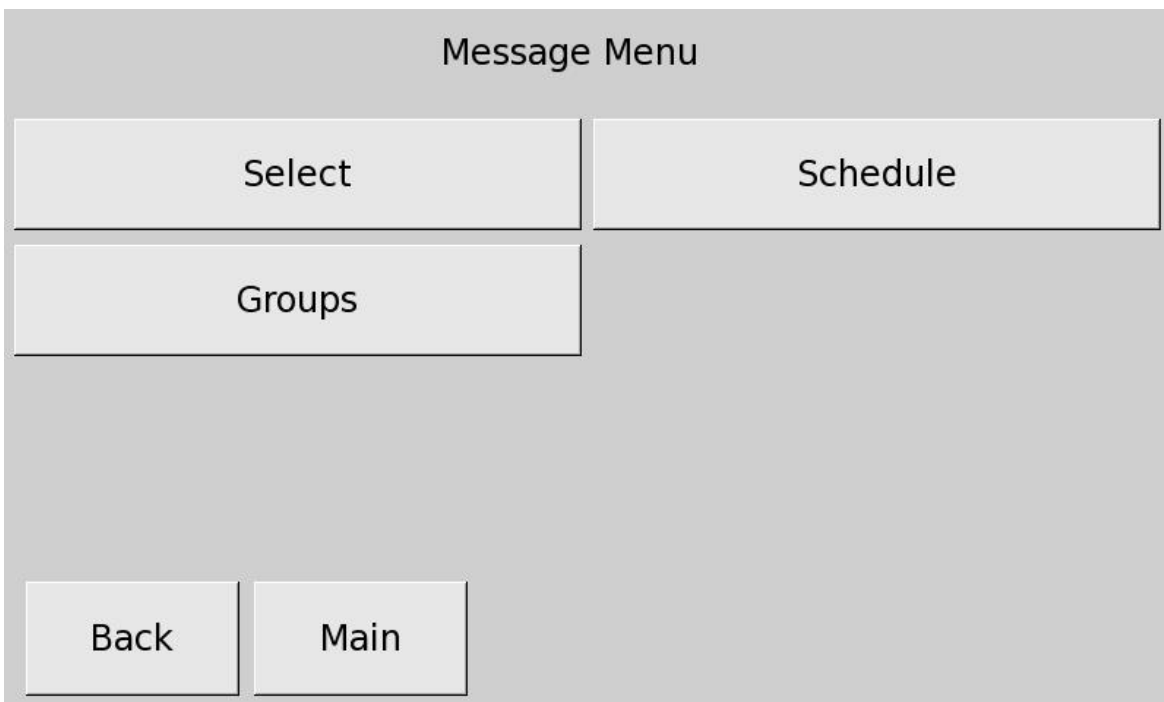
Radar Settings	
Radar Mode : Capture	Speed Limit : 20
Excess Speed : 10	Advanced Options ...
Back	Main

Radar Advanced Settings: Type=Wanco	
Radar Messages	Units & Min Speed
Restore Defaults	
Back	Main

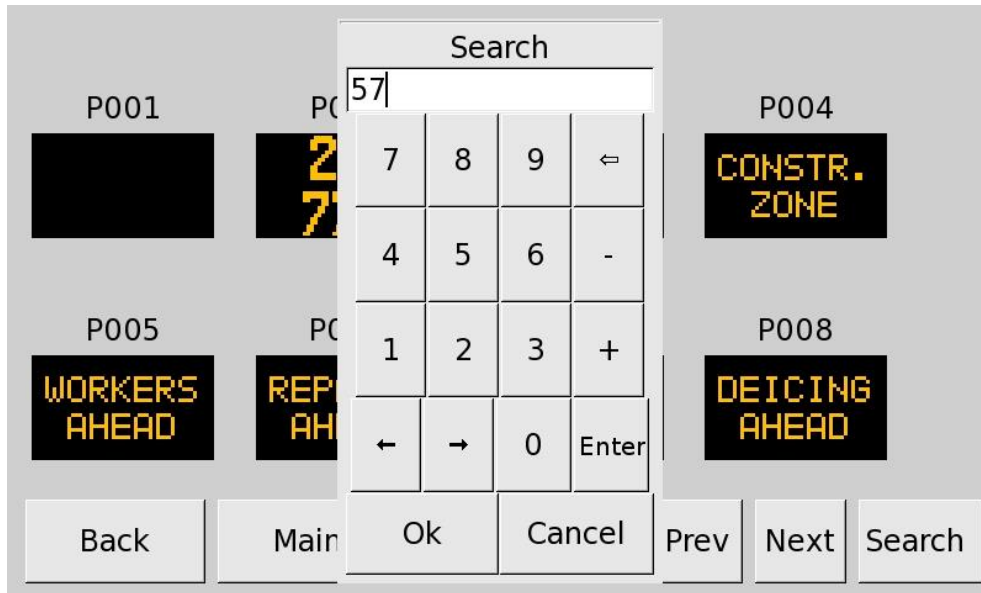
Touching the **Radar Messages** button will bring the following screen:



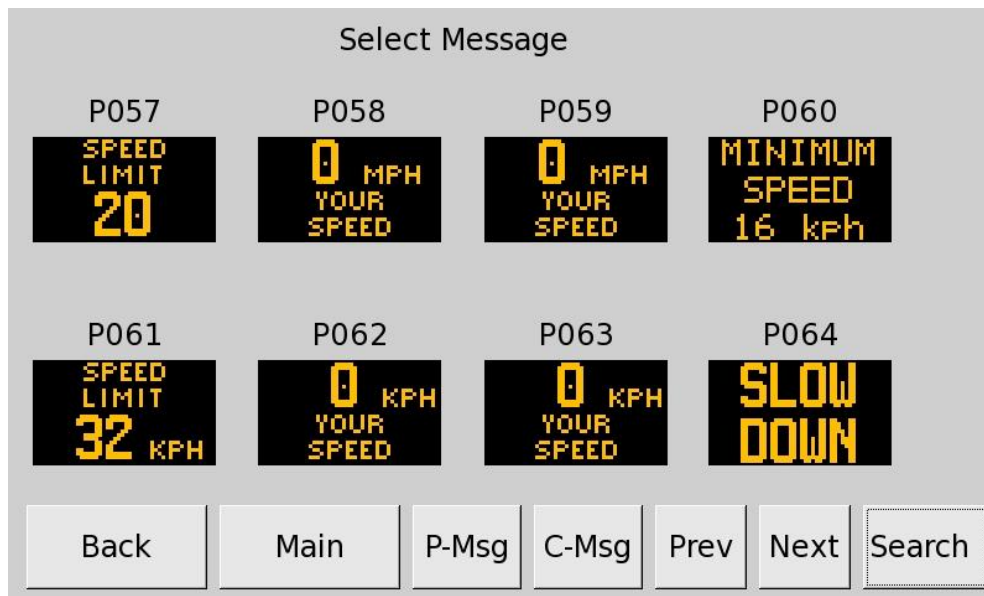
The screen above shows the codes of the default messages for the radar speed trailer function. These are the permanent messages starting at **P057**. So now we go back to main screen, touch **Message Menu** and obtain the screen shown below.



Touch **Select** and obtain **Select Message** screen. In this screen, touch **P-Msg** and using **Search** button find the permanent message **P057**. We obtained the screen shown below with the superimposed search window, in which we put **57** (the number of the message **P057**).



Touch **OK** and get the screen shown below that shows all default messages for the radar speed trailer function, i.e., the messages **P057**, **P058**, **P059**, and **P064**.



The sign displays message **P057: SPEED LIMIT 20**. If the speed of the approaching vehicle is below 20 MPH, the message **P058** is displayed (with the actual speed) without flashing, and if the actual speed is within the range 0 to 15 MPH over the posted limit, the message **P059** is displayed that is the actual speed flashing. However, if the speed exceeds this range, the excessive speed message **P064 (SLOW DOWN)** is displayed.

If the standard speed trailer messages do not meet your requirements, you can change them. To do so, we start with the **Main** screen and we touch **Settings**, then **Devices**, then **Radar Settings**, then **Advanced Options...**, then **Radar Messages** and finally we obtain the screen shown below.

Radar Messages

Speed Limit Msg : P057	Legal Speed Msg : P058
Overspeed Msg : P059	Excessive Msg : P064

Back

Main

If you now touch **Speed Limit Msg: P057** you obtain the following screen:

Select Message

Blank

Changable

Permanent

Last

7	8	9	←
4	5	6	-
1	2	3	+
←	→	0	Enter

Msg : P058

sg : P064

Back

Ok

Cancel

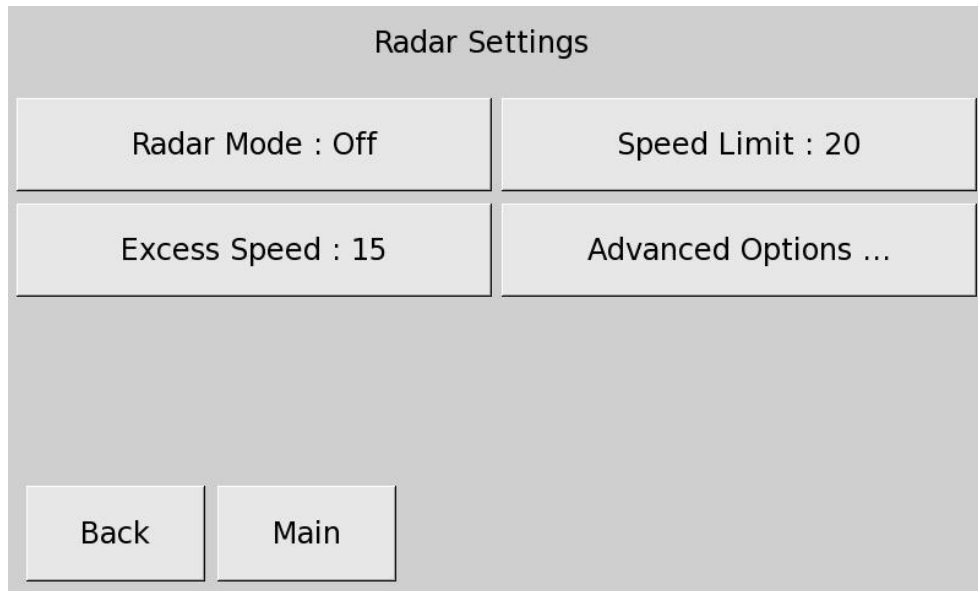
Using this screen, we can replace the message **P057** by, previously established, required changeable message. Let it be message **C015**. We insert this information as shown below.

Now touch OK and obtain the confirmation of your action as shown below.

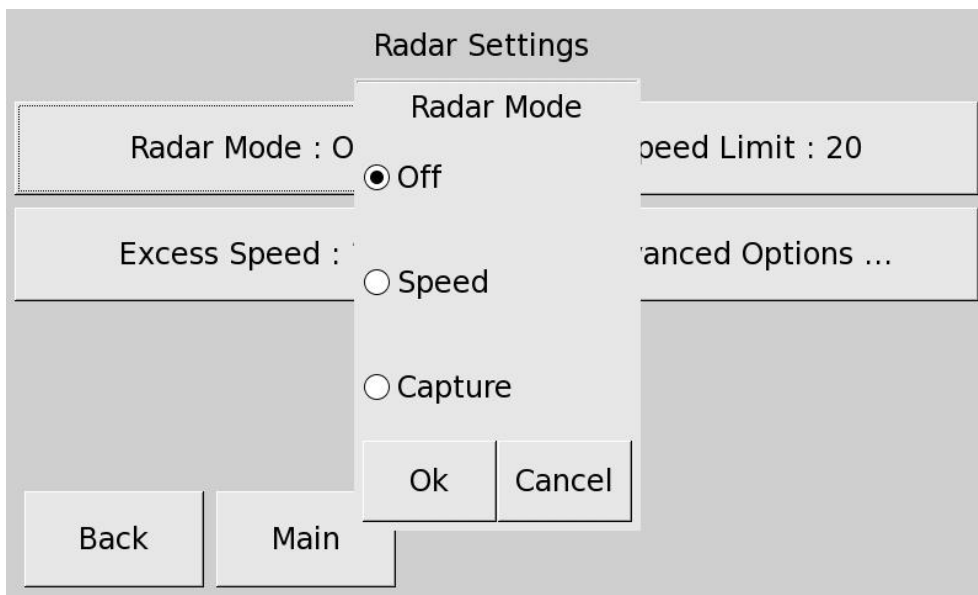
You can repeat the same for all four Radar Messages.

Radar Modes of Operation

When your sign is equipped with the radar, you can turn the message board into a new device. So now we are going to show how to do the required settings to make it happen. In the **Main** screen, touch **Settings**, then on the next screen that comes up touch **Devices** and on the next screen touch **Radar Settings**. Now, the following **Radar Settings** screen comes up, in which (to turn the radar off) you touch **Radar Mode: Off**.



The **Radar Mode** window comes up, as shown below, and gives you the choice of three possible modes. In the **mode OFF**, the radar is not energized, i.e., it is not collecting or displaying any information. You select this option when you do not need the radar and you want to save energy.



The **Speed** and **Capture** modes require some more explanation. Select **Speed** and touch **OK**. The screen shown below comes up. It confirms that the **Radar Mode: Speed** is on. The radar starts displaying on the sign the speed of vehicles approaching. No information is recorded.

The screenshot shows a 'Radar Settings' screen with a light gray background. At the top, the title 'Radar Settings' is centered. Below the title, there are four rectangular buttons arranged in a 2x2 grid. The top-left button is labeled 'Radar Mode : Speed', the top-right is 'Speed Limit : 20', the bottom-left is 'Excess Speed : 15', and the bottom-right is 'Advanced Options ...'. At the bottom of the screen, there are two more buttons: 'Back' on the left and 'Main' on the right.

However, if you select the **Capture** mode and touch **OK**, the screen that comes up, shown below, displays the information **Radar Mode: Capture**. In this mode, the radar does not project any information on the sign, so you can project any information you want. However, in this mode the information captured by the radar is recorded but the vehicle operators do not know about it.

The screenshot shows a 'Radar Settings' screen with a light gray background. At the top, the title 'Radar Settings' is centered. Below the title, there are four rectangular buttons arranged in a 2x2 grid. The top-left button is labeled 'Radar Mode : Capture', the top-right is 'Speed Limit : 20', the bottom-left is 'Excess Speed : 15', and the bottom-right is 'Advanced Options ...'. At the bottom of the screen, there are two more buttons: 'Back' on the left and 'Main' on the right.

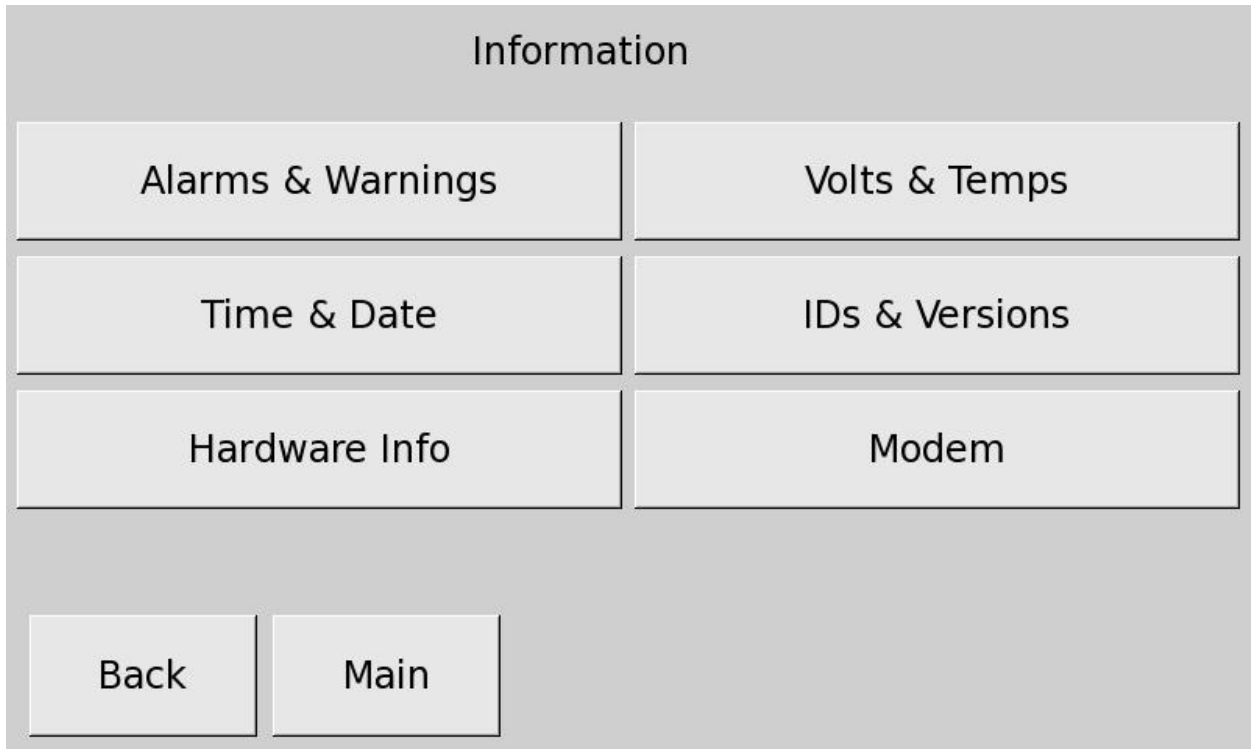
Radar Capture

Suppose that we do not want to show the speed data to the people driving on the road but you still want to collect the speed data, we select the **Capture** mode exactly as we did at the end of the previous section. If you like, you can set the sign blank. You will see that the radar light is still **ON**. If you insert the thumb drive (into the USB slot), you are going to get the information downloaded and you do not need to do anything on the menu. The speed data are collected three times per second and a set of data is automatically downloaded to the thumb drive every 15 minutes, so it's quite a bit of data but if you use a 1-gigabyte thumb drive, this is enough for a long long time, more than a year under most situations. **Please remember, data will NOT be collected without a USB drive inserted.** So, when you remove the thumb drive from the slot to go analyze the recorded data, you need to insert another one if you like to continue the recording. If you are going to the sign for the first time to start recording the speed data, make sure that you have two 1GB thumb drives in your pocket.

What is recorded on the thumb drive is only the speed information in the **CSV** or **Comma Separated Value** format that is easily importable to Excel. So you can make a chart or a graph. However, if the full speed data capture is required, you will need a **side fire data collector** which Wanco sells. You can learn more about those options from Wanco videos. Please remember that the only information on the thumb drive is the time and speed. So you can only answer such question as: was there any speed above 50 miles per hour on this road in the last week? If you need any data more sophisticated than that, you need to purchase a classifier.

Information

In the **Main** screen, touch **Information** to obtain screen shown below. In this screen you have six buttons that you use to obtain any particular information screen. All these screens are shown below.



Alarms and Warnings

Display=Ok

Volt Warning=Ok

Temperature Warning=Ok

Temperature Critical=Ok

Photo Cell=Ok

Back

Main

Date and Time

Wed 18 Jan 2017 03:12:21 PM

Run Timer: 554.2 hrs

Time Zone: -7 hrs

Back

Main

Sign information

Cards: 6 x 3

Pixel: 8 x 9

MB MTX12: v ?..??

PCU Serial: 1702

DCU Serial: 002036

PCU Software Version: 1.00.05

DCU Software Version: 20161024 - v00.07.20

Current Status

Fan 1=0 DispPwr=+

Fan 2=0 Brght=02%

Charger=Off

Back

Main

Voltages and Temperatures

Vbat=13.84 ISign=0.54

Vsol=0.00 ISolar=0.17

P1=000% P2=000%

Ts=78°F

Back

Main

IDs and Versions

5F12S1610G1010104

PV: v00.07.20

AV: v00.08.14

Model: WTMMB-14

Back

Main

Signal Strength:-113 dBm, Bit Error Rate:0

Signal Bars:0

IP Address: IMEI:5564300

Operator:, Subscriber:

Model ID:, Revision ID:

Latitude:90000001, Longitude:180000001

Ping Test

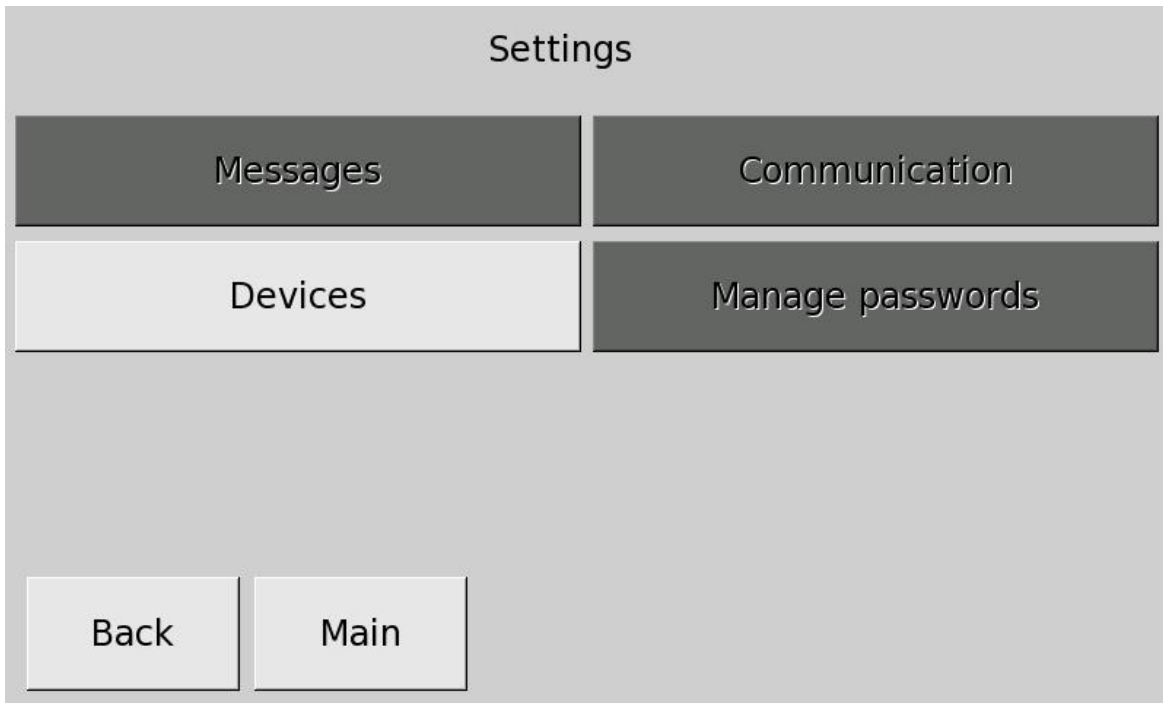
Last Good Ping: No Ping

Back

Main

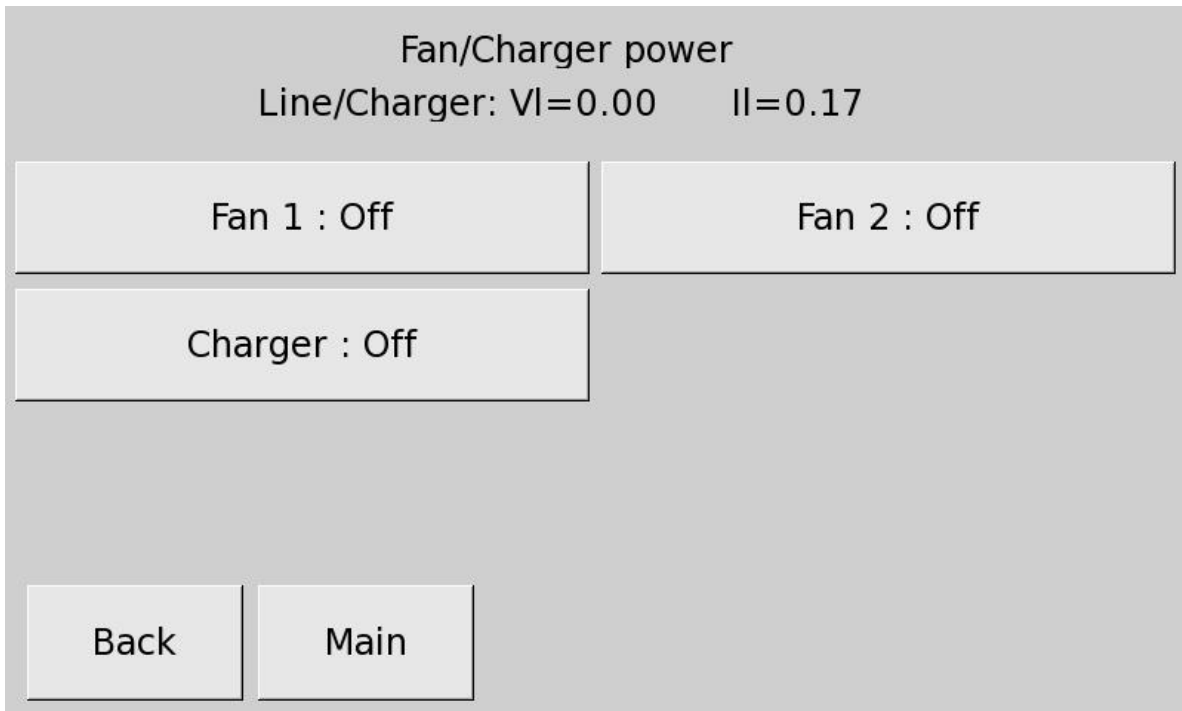
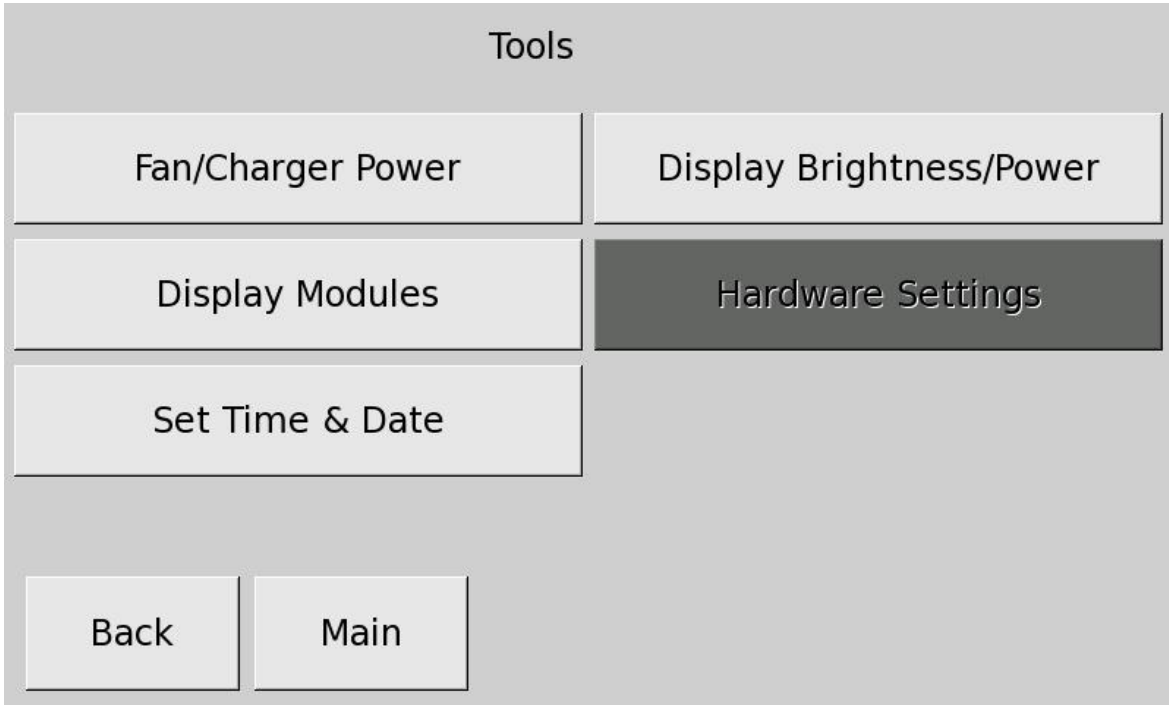
Settings

Touch **Settings** in the **Main** screen to obtain the screen shown below



Tools

Touch **Tools** in the **Main** screen to see the available buttons shown below. All particular tool screens that you now can reach are also shown.



Fan/Charger power
Line/Charger: VI=0.00 II=0.18

Fan 1

Fan 1 : Off Fan 2 : Off

Off

On

Display Cards: Version=?..??, Count=0

Cards


??????

??????

??????

PixelTest

P072



Display Cards: Version=?..?, Count=0

Cards

??????
??????
??????

PixelTest

P072

ABCDEFGH
IJKLMNOP
QRSTUVWXYZ

Scan	Init	LED
Back	Main	

Display Cards: Version=?..?, Count=0

Cards

??????
??????
??????

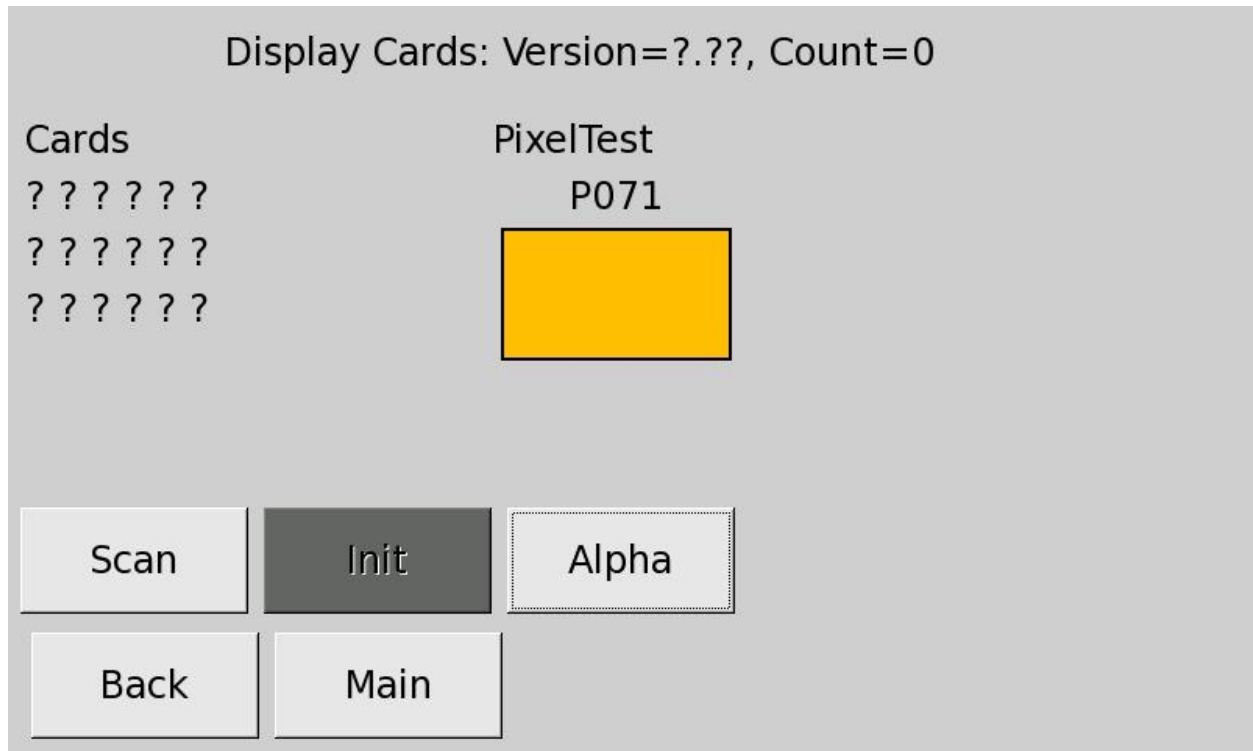
PixelTest

P072

ABCDEFGH
IJKLMNOP
QRSTUVWXYZ

Scanning.

Scan	Init	LED
Back	Main	



PERMANENT MESSAGES

The following messages are standard on matrix and 3-line character signs. Matrix messages will use a variety of fonts and bitmap graphics. Character messages will use the standard font, text versions of the MUTCD signs and arrow graphics. Messages for 2-line character signs may be shortened or reformatted. For 1-line signs, most permanent messages will be blank. All sign models will have the 3 standard test messages

- P001: Blank Message
- P002: Time & Temperature
- P003: Standard Message CLICK IT OR TICKET
- P004: Standard Message CONSTR. ZONE FINES DOUBLED
- P005: Standard Message WORKERS AHEAD GIVE EM A BRAKE
- P006: Standard Message REPAIRS AHEAD USE CAUTION
- P007: Standard Message WRECK AHEAD REDUCE SPEED
- P008: Standard Message DEICING AHEAD STAY BACK
- P009: Standard Message SNOW REMOVAL STAY BACK
- P010: Standard Message PAINT CREW LANES WET DO NOT PASS
- P011: Standard Message PAINT CREW << KEEP LEFT
- P012: Standard Message PAINT CREW >> KEEP RIGHT
- P013: Standard Message MERGE <-----

P014: Standard Message MERGE ----->
P015: Arrow Message: << KEEP LEFT
P016: Arrow Message: >> KEEP RIGHT
P017: FHWA Message: ALL LANES OPEN
P018: FHWA Message: BLOWING SNOW
P019: FHWA Message: BRIDGE CLOSED AHEAD
P020: FHWA Message: CAUTION DUST STORM
P021: FHWA Message: CAUTION FOG AHEAD
P022: FHWA Message: CAUTION HIGH WINDS
P023: FHWA Message: CAUTION ICY ROAD
P024: FHWA Message: CAUTION ROAD FLOODED
P025: FHWA Message: CAUTION SLIPPERY ROAD
P026: FHWA Message: CHAINS REQUIRED AHEAD
P027: FHWA Message: DANGER FALLING ROCKS
P028: FHWA Message: DO NOT PASS
P029: FHWA Message: EMERGENCY VEHICLES
P030: FHWA Message: FLAGGER AHEAD
P031: FHWA Message: FOLLOW DETOURS AHEAD
P032: FHWA Message: FOLLOW PACE CAR
P033: FHWA Message: HEAVY TRAFFIC AHEAD
P034: FHWA Message: LANES CHANGE AHEAD
P035: FHWA Message: LOAD SPILL
P036: FHWA Message: WORKERS AHEAD
P037: FHWA Message: PAINT CREW
P038: FHWA Message: ROAD CLOSED AHEAD
P039: FHWA Message: SLOW MOVING TRAFFIC
P040: FHWA Message: STEEL PLATES
P041: FHWA Message: TRAFFIC SIGNAL OUT
P042: FHWA Message: WATCH FOR TRUCKS
P043: Arrow Message 4-Corner Caution (flashing)
P044: Arrow Message Diamonds Caution (flashing)
P045: Arrow Message Bar Caution (flashing)
P046: Arrow Message Double Arrow (flashing)
P047: Arrow Message Left Arrow (flashing)
P048: Arrow Message Right Arrow (flashing)
P049: Arrow Message Left Arrow (walking)
P050: Arrow Message Right Arrow (walking)
P051: Arrow Message Left Chevrons (walking)
P052: Arrow Message Right Chevrons (walking)
P053: Arrow Message Left Stem Arrow (walking)
P054: Arrow Message Right Stem Arrow (walking)
P055: Hwy Radio Message: ADVISORY TUNE TO ##### AM
P056: Speed Message: MINIMUM SPEED ## mph

P057: Radar Message: SPEED LIMIT ## mph
P058: Radar Message: ## mph YOUR SPEED
P059: Radar Message: ## mph YOUR SPEED (flashing)
P060: Speed Message: MINIMUM SPEED ## kph
P061: Radar Message: SPEED LIMIT ## kph
P062: Radar Message: ## kph YOUR SPEED
P063: Radar Message: ## kph YOUR SPEED (flashing)
P064: Radar Message: SLOW DOWN (flashing)
P065: Speed Message: SLOW
P066: Speed Message: STOP
P067: NTCIP Message: LOW POWER
P068: NTCIP Message: POWER RESET
P069: NTCIP Message: COMM LOST
P070: NTCIP Message: SYSTEM RESET
P071: LED Test Page
P072: Alphabet Test Page
P073: Time & Voltages
P074: Time & Temperatures
P075: MUTCD Sign, M4-10L: Detour <-----
P076: MUTCD Sign, M4-10R: Detour ----->
P077: MUTCD Sign, W1-4bL: <----- Lanes Shift Left
P078: MUTCD Sign, W1-4bR: -----> Lanes Shift Right
P079: MUTCD Sign, W7-1: Steep Grade (Truck Downhill)
P080: MUTCD Sign, W1-5: Curvy Road (Reverse Curve)
P081: MUTCD Sign, W6-1: Median Begins 2-Way Traffic (Begin Divided Hwy)
P082: MUTCD Sign, W6-2: Median Ends 2-Way Traffic Keep Right (End Div Hwy)
P083: MUTCD Sign, R4-7: Keep Right Median Begins
P084: MUTCD Sign, W4-1R: Merge Ahead (Incoming from Right)
P085: MUTCD Sign, W20-7a: Flagger Ahead
P086: MUTCD Sign, W21-1a: Workers Ahead
P087: MUTCD Sign, W8-5: Slippery Road
P088: MUTCD Sign, W1-7: Double Arrow (non-flashing)
P089: MUTCD Sign, W1-6L: Left Arrow (non-flashing)
P090: MUTCD Sign, W1-6R: Right Arrow (non-flashing)
P091: OPEN
P092: CLOSED
P093: Manufacturer/Logo
P094: Factory Test Sequence