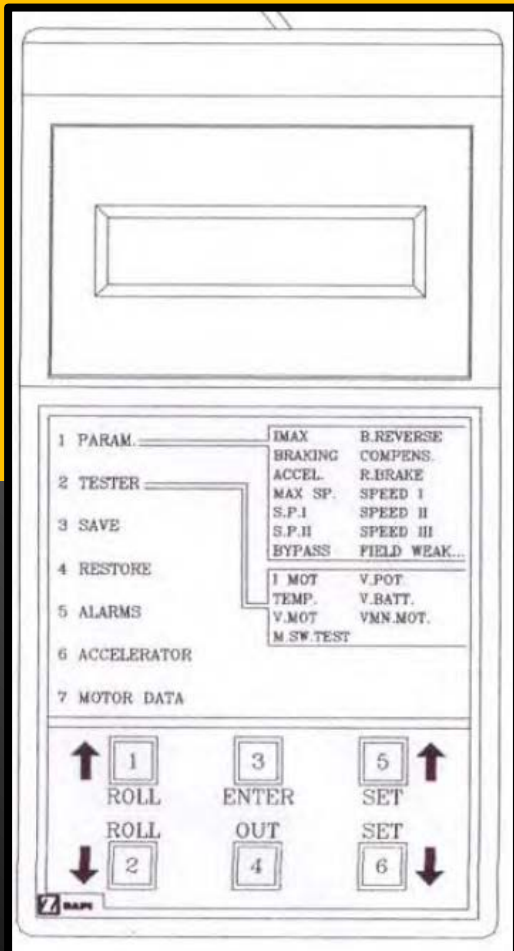
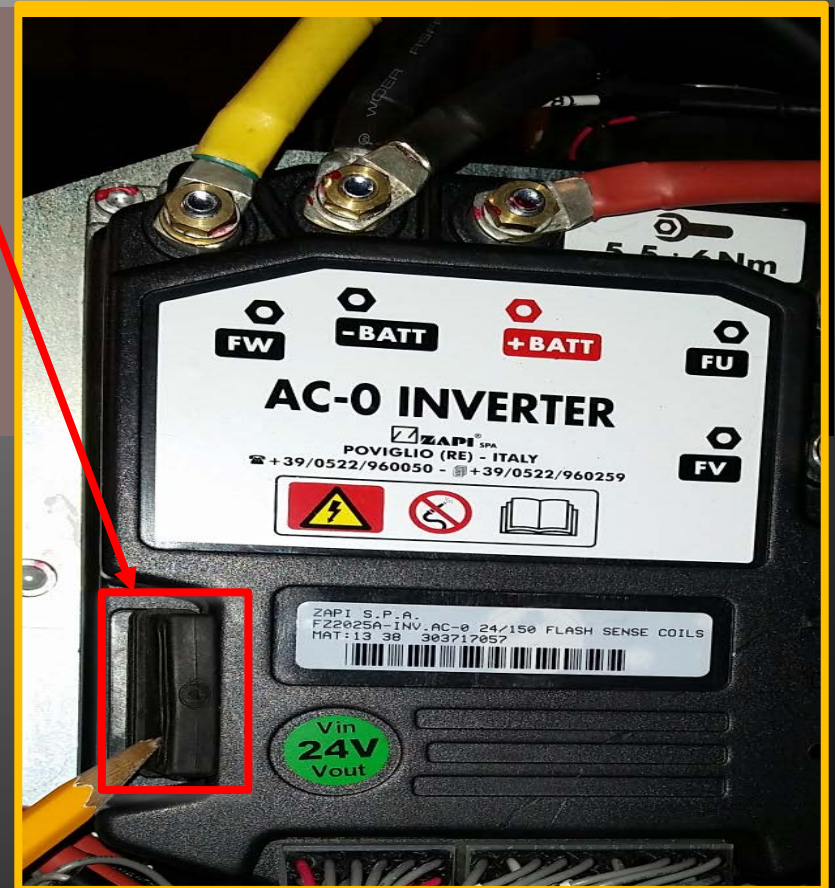


Zapi Handset Guide

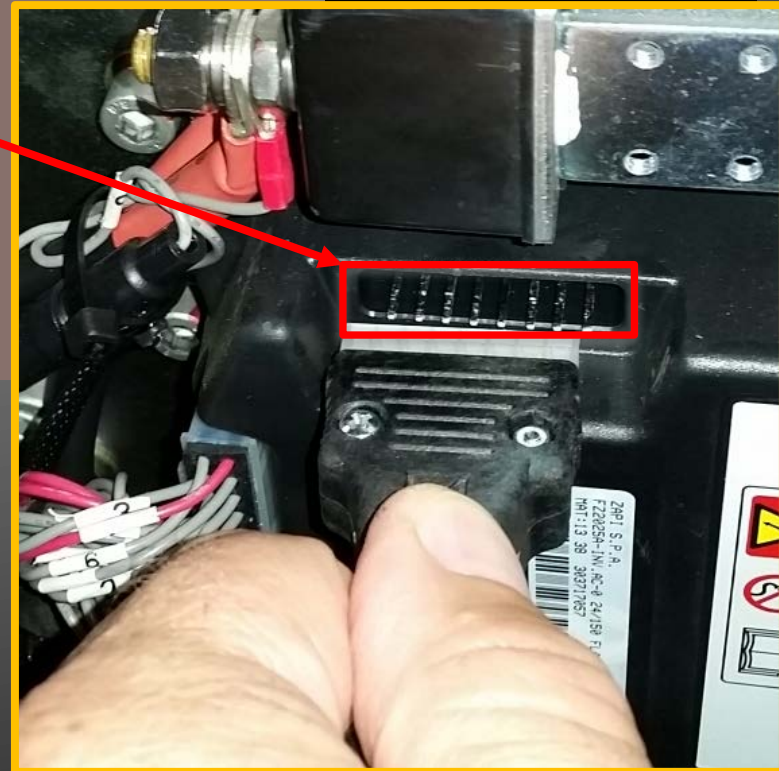


1. Turn the Key Switch off, remove cover (s) as needed
2. Remove the Rubber Dust Cover from the Zapi Controller

The Zapi AC-0 means that it is an A/C (Alternating Current) Inverter & the Amperage is a 150 Amp Maximum Capacity

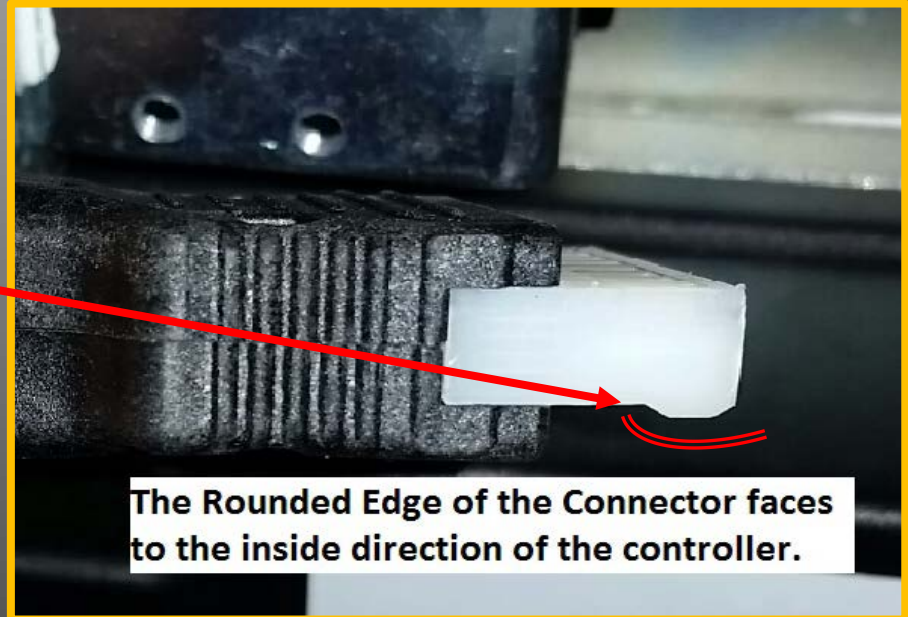


1. Turn the Key Switch off
2. Remove the Rubber Dust Cover from the Zapi Controller
3. Connect the Zapi Handset to the Exposed Pins



1. Turn the Key Switch off
2. Remove the Rubber Dust Cover from the Zapi Controller
3. Connect the Zapi Handset to the Exposed Pins

****Note the Connector Shape and position****

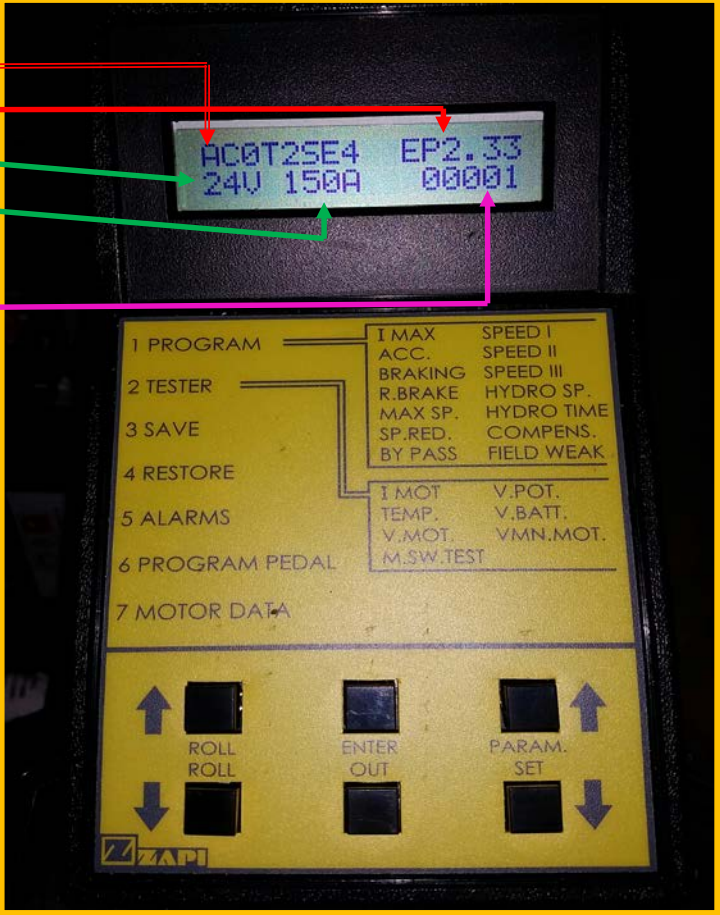


4. Turn The Key Switch On

5. This will power up the Zapi Handset



AC0T2SE4: The controller you are connected to
EP2.33: Firmware version
24V: The Voltage of the Controller
150A: The Maximum Amperage
00001: The Hours on the unit



1. Press the Roll Up & Enter Button Simultaneously

2. This will allow you to get to the Tester & Parameter Change Menus, then by using the Roll up or Down Buttons on the left you can go to the desired functions.



1. The Tester menu will allow you to see a variety of live inputs

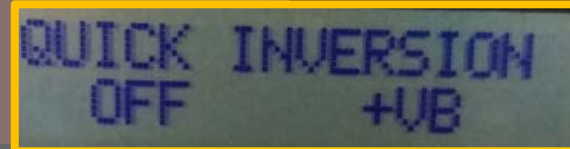
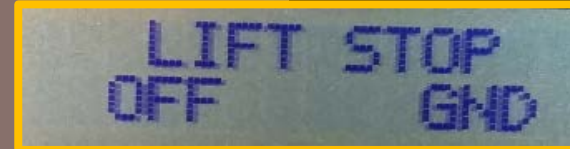
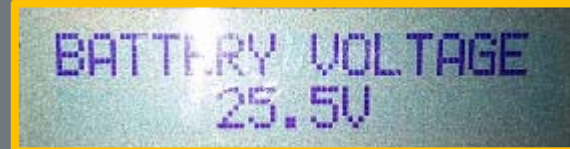


	Tester to see live inputs	Description	Off Or Neutral	On or Actuated
1	Battery Voltage	Displays Battery Voltage at the Controller	#N/A	#N/A
2	Cut Back Switch 2	Brake Switch	Off GND	+VB
3	Lift Stop Switch	Lift Limit Switch	Off GND	+VB
4	Quick Inverse	Is the Belly Button Safety Reversing	Off GND	+VB
5	HS	Hard & Soft leave at Factory Settings	#N/A	#N/A
6	Handle Seat Switch	2 Brake Switch	Off GND	+VB
7	Backward Switch	Travel in Fork Direction	Off GND	+VB
8	Forward Switch	Travel in Power Head Direction	Off GND	+VB
9	Decent Switch	Lowering Switch	Off GND	+VB
10	Lifting Switch	Raise Lift Switch	Off GND	+VB
11	Brake Pedal Pot	Not Used	#N/A	#N/A
12	Accelerator	Speed Controller in Handle	0.0	2.5
13	Motor Temp	Temperature of the Drive Motor	32C	32c +
14	Temperature	Temperature of the Controller	28C	28C+
15	Battery Charge	State of Charge in Percent	80% = 25.4?	
16	Current RMS	Motor Current	0	Increases with Travel
17	Encoder	Encoder in the Drive Motor	0.0 Hz	.49 down to 0
18	Frequency	Frequency of Hz to the drive motor	0.0 Hz	Reverse - Forward + up to 23?
19	Motor Power	Watts Used	0.0	Up to 148
20	Flux Milliwb	#N/A	#N/A	#N/A

1. The Tester menu will allow you to see a variety of live inputs



The Items listed are a few of the Items you will see in the Tester Mode



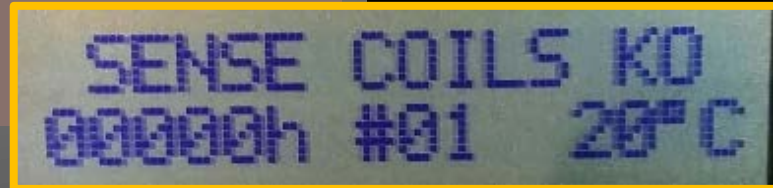
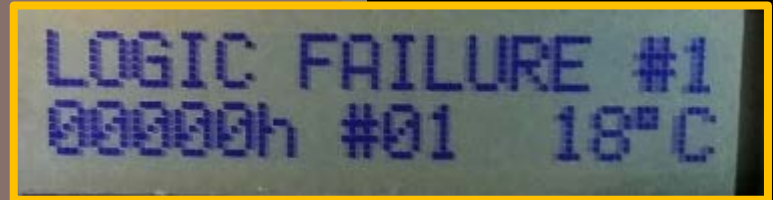
1. The Tester menu will allow you to see a variety of live inputs



2. The Alarms menu will show you the stored Controller Faults and can be cleared from the menu



The items shown are a few examples of what a Alarm will look like



3. The Parameter Change menu will allow adjustments to the unit



	Parameter Changes	Value
1	Accelerator Delay	Level 9
2	Anti Roll Back	Leave set at 80%, (the factory setting)
3	Aux Time	#N/A
4	Inching Level	#N/A
5	Max Current (Leave at Factory Setting) (increase as a last effort for heavier loads, consumes more battery power)	70%
6	RPM Creep	100
7	Frequency Creep	5 Hz
8	HS Cut Back	100%
9	Cut Back Speed 2 (Pin Wheeling Speed)	37%
10	Cut Back Speed (for trucks with masts)	100%
11	Max Speed FWD & REV	80%
12	Brake Level Cut Back	5
13	Speed Limit Brake	Level 1
14	Pedal Brake	Level 9
15	Quick Inversion	level 6
16	Inverse Brake (Plugging)	Level 4
17	Release Brake (Time for Brake to Release)	Level 5

1. The Tester menu will allow you to see a variety of live inputs



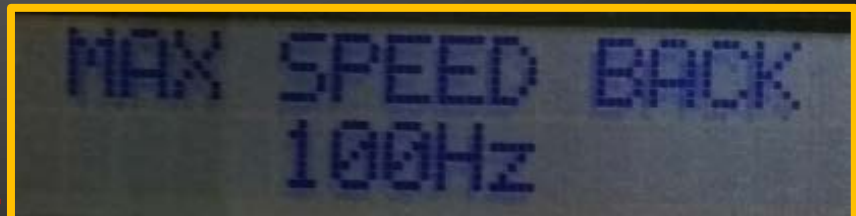
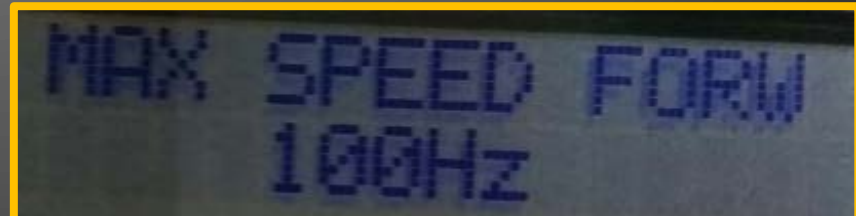
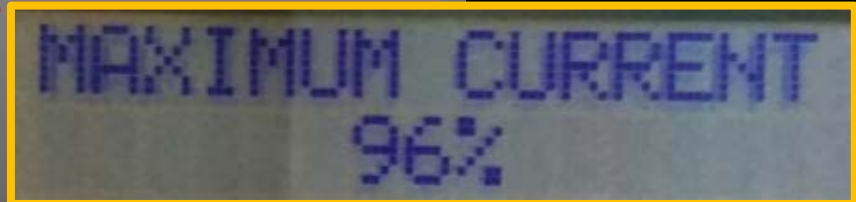
2. The Alarms menu will show you the stored Controller Faults and can be cleared from the menu



3. The Parameter Change menu will allow adjustments to the unit



The items shown are a few of the Parameters you can Adjust



4. The Program VACC will allow you to program the speed controller



	Program VACC (VARIABLE ACCELERATOR CONTROL CARD)	Off Or Neutral	Full FWD or RVS
1	Select Program VACC	0.0	2.5
2	Press the Enter Button	0.0	0.0
3	Press & Hold the Enter Button for 2 seconds	0.0	0.0
4	Zapi Hand Set should Zero out	0.0	0.0
5	Twist the accelerator Full Forward then back to Neutral and then Full Reverse	0.0	2.5

1. The Tester menu will allow you to see a variety of live inputs



2. The Alarms menu will show you the stored Controller Faults and can be cleared from the menu



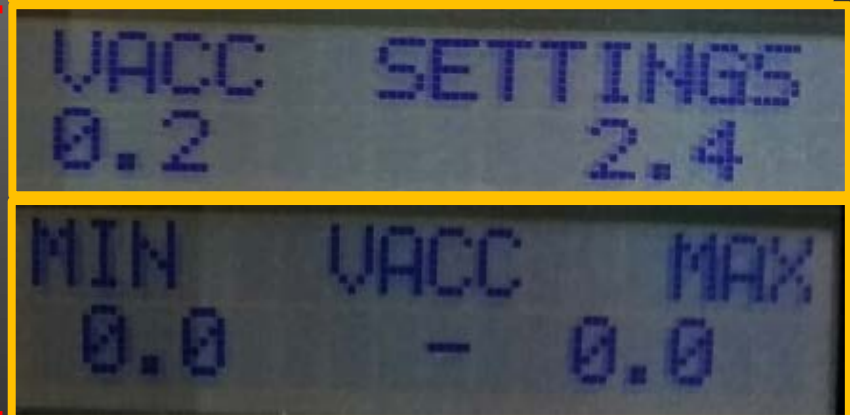
3. The Parameter Change menu will allow adjustments to the unit



4. The Program VACC will allow you to program the speed controller



This is what the programming screen will look like



**** NOTE:**

When a Zapi Controller or a Accelerator has been replaced it is necessary to RE-Program the VACC with the Zapi Handset

Replacement Zapi Control Programming Procedure

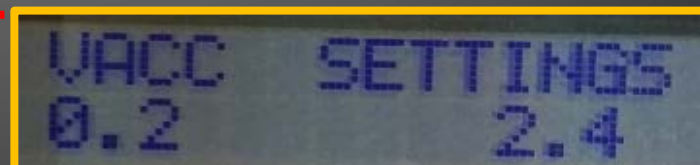
When a Zapi AC-0 Controller is replaced, the following programming procedure must be performed after the controller is installed in the truck.

TO PROGRAM VACC:

1. Turn on the ZAPI handset.
2. Press enter and press roll up or roll down to find the program VACC.
3. Press enter to go into the program VACC function.
4. Press enter to clear the value, then display will show 0.0 for both VACC and settings.
5. Push the accelerator forward to the max, then push the accelerator backward to the max. Settings value should go from 0.0 in neutral to 2.4 or 2.5 at max. each way.
6. Press out (display will ask you "are you sure")
7. Press enter for yes.

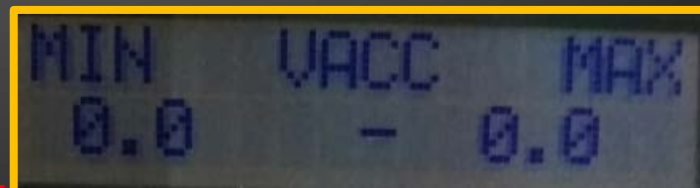
**** NOTE:**

When a Zapi Controller or a Accelerator has been replaced it is necessary to RE-Program the VACC with the Zapi Handset



A screenshot of a Zapi display showing two columns of data. The left column is labeled 'VACC' and the right column is labeled 'SETTINGS'. The 'VACC' value is 0.2 and the 'SETTINGS' value is 2.4. The display is framed by a yellow border.

VACC	SETTINGS
0.2	2.4



A screenshot of a Zapi display showing three columns of data. The left column is labeled 'MIN', the middle column is labeled 'VACC', and the right column is labeled 'MAX'. The 'MIN' value is 0.0, the 'VACC' value is a hyphen (-), and the 'MAX' value is 0.0. The display is framed by a yellow border.

MIN	VACC	MAX
0.0	-	0.0

For further instructions go to:

<http://www.bigjoesupport.com/>



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Site Overview

This website was established to provide support to end users and Dealers of Big Joe equipment. Some features of the website include:

- **Online Parts Catalog**
A comprehensive library of parts illustrations, service manuals and documentation for almost every Big Joe ever made! The list keeps growing as we continue to add and update both new and legacy equipment information.
- **Quick Search**
A search utility to help you find what you're looking for in the Online Parts Catalog.
- **Dealer Locator**
Find a Big Joe Dealer - search by state/country or proximity to zip code.

In addition to the parts illustrations and service documentation that are available to everyone, Dealers have access to the following resources:

- **Parts Pricing and Availability**
Listed next to each part number when viewing a parts drawing in the Online Parts Catalog.
- **Quick Quote**
Do you have a list of parts and need list price, cost and availability? Use the Quick Quote tool in the left window pane of the Online Parts Catalog.
- **Dealer Tools**
Downloads that include the Parts Order Form, Warranty Registration Form, Warranty Card, Dealer Promotional Merchandise, MSDS sheets and a website tutorial.
- **Order Parts**
Submit a parts order from a list or add items while browsing the Online Parts Catalog.

If you're a Dealer and don't have your login and password, call us today! It takes less than a minute to set you up.

Thanks for stopping by, keep checking back for more news and updates.
-The Big Joe Support Team

News

July 18, 2014

We have received some information from a couple of customers that they have had some issues with intermittent stop and start in refrigerated trailer delivery applications and therefore we have updated our Service Bulletins with a possible solution for this problem should it occur.

June 12, 2014

We have received some information from our charger supplier in regards to the charging procedures for the following truck models J1, WPT-45, PDS & CB-22. Because of this we have updated the Service Bulletin that you can find under the Service Tab once you logged in. Once you have downloaded the PDF file click on the Informative Bulletins link and then chose the link for IF-006 to read more about this important information.

May 14, 2014

We are pleased to announce that we have now updated the website so that you can get your freight charges and tracking number for your order (it currently only works for UPS orders). Once you are logged in you can either go to "View Orders" and find your order by looking for your PO # and when you find that click on the corresponding "Order ID" in the Left column this will give you a new window where you can see freight charges and also have a link to track the package. The other way you can do it is to click on the "Order Tracking" and enter either your PO # or the "Sales Order #" (Not Order ID), if you chose to use your PO # then check mark the "PO #" box on the right side. When you have entered this information click on the "Search UPS" button and that will open up a new window where you can see freight charges and also have a link to track the package.

November 27, 2013

When you are logged in to the website you can now go to the Dealer Tools tab and download an instructional PDF for how to order parts on the www.bigjoesupport.com website.

November 8, 2013

We have now posted D40 manual under the Online Parts Catalog tab.

September 4, 2013

We have now posted both the EZ-30 and EZ-40 manuals under the Online Parts Catalog tab.