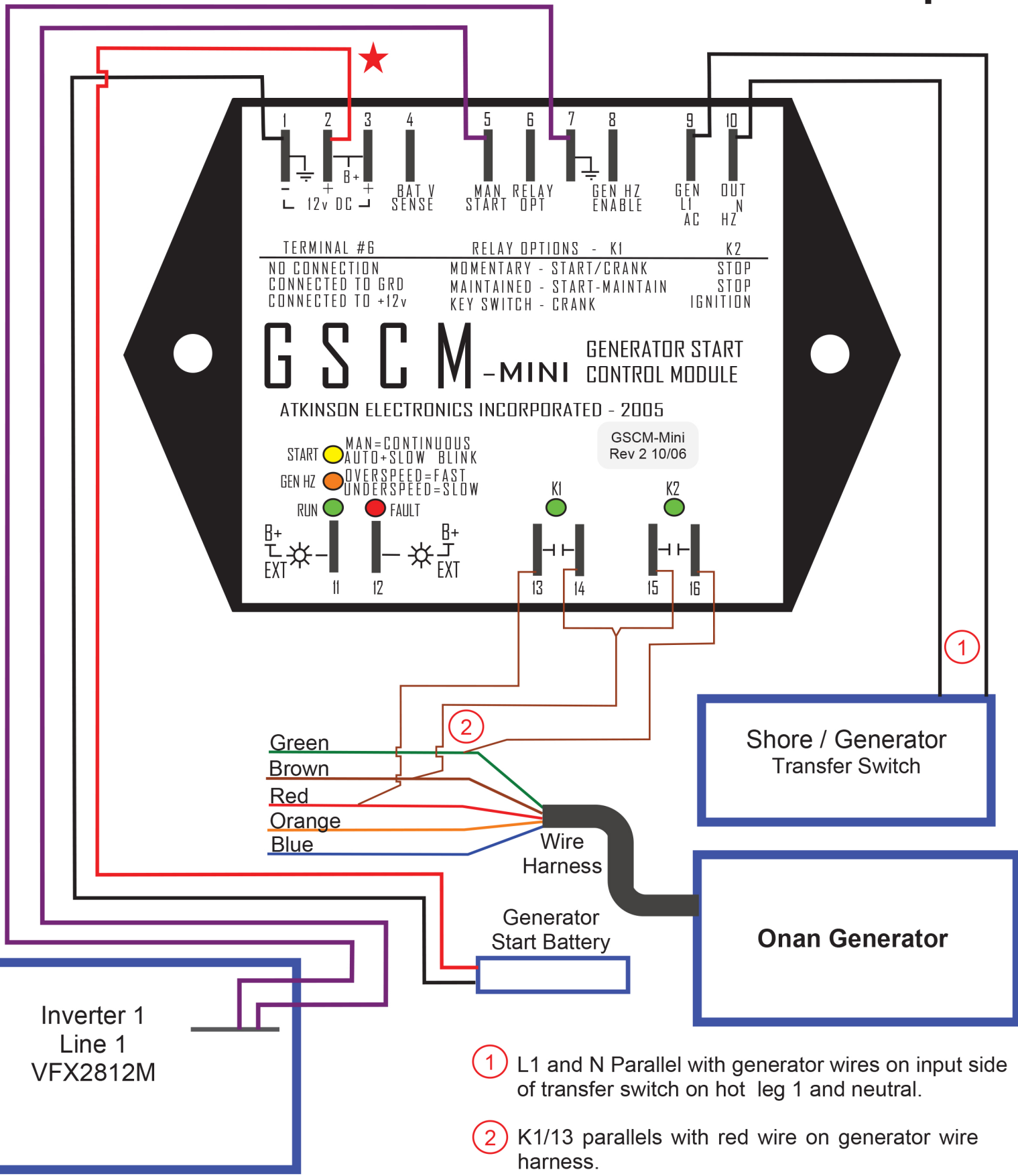


Onan Generator Auto-Start Control Hook-up



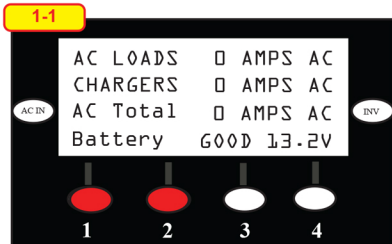
★ To reset, remove and reconnect positive wire on prong #2.

Renegade Single Inverter Mate Programming

Table of Contents

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1 Summary Screen:



If screen backlight is off pushing any button only turns on backlight.

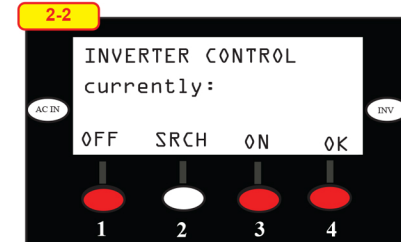
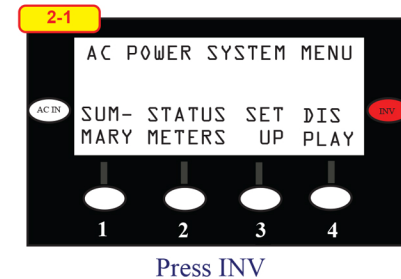
If in summary screen pushing any button 1-4 will go to AC Power System Menu.

Shortcut: Pressing 1 and 2 simultaneously in any screen takes you back to AC Power System menu. (Be careful you are not in a screen that will change a setting if you push one harder or quicker than the other).

Basic Inverter Check:

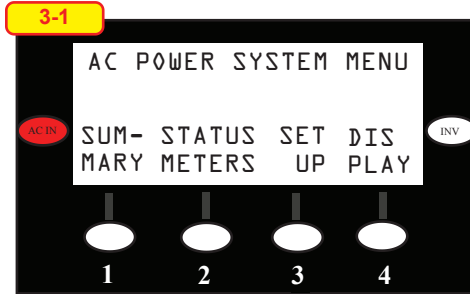
When inverter is turned on you will have a green LED lit above the INV button.

2 Inverter ON/OFF Control:

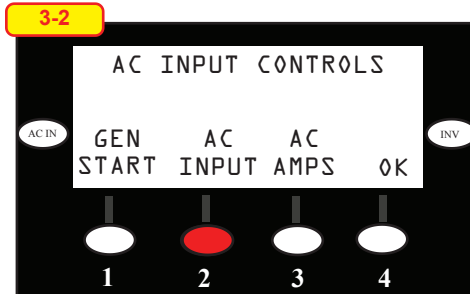


Press OFF / ON to turn inverter off or on. Then OK to go back to AC Power Systems Menu. A good way to do a quick inverter reset is turn OFF for 5 seconds then ON again. Also unplugging the Cat 5 from the Mate is a good remote reset.

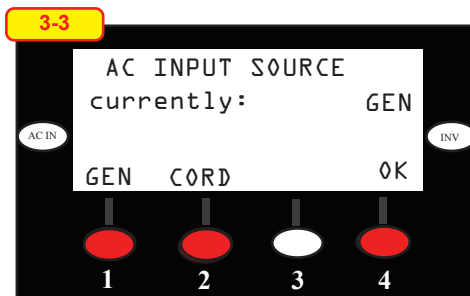
3 Shore Cord Settings:



Press AC IN



Press #2 AC Input



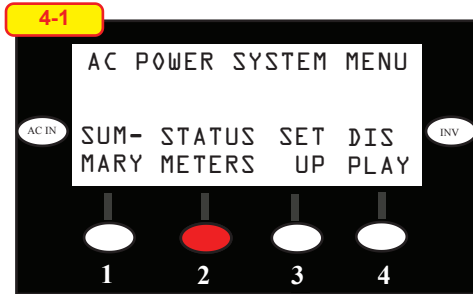
- Pressing #1 GEN uses High shore cord settings, 30 amp 120V only
- Pressing #2 CORD uses Low shore cord settings, anything other than 30 amp 120V (20, 15, 10 amp 110V)

After done in this screen, press #4 OK, to return to AC Power System Menu

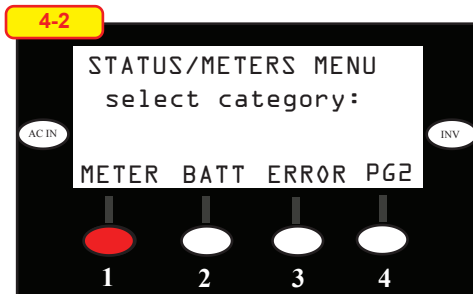
DO NOT go into AC AMP settings.

After starting generator or plugging into shore power yellow LED above AC IN button blinks for 30 seconds then becomes solid indicating it has connected to input power. If yellow LED does not blink it is an indication that you do not have live AC input. If LED flashes but does not become solid it is indicating input voltages or hertz is too low or high and it will not charge and you are still running off of batteries.

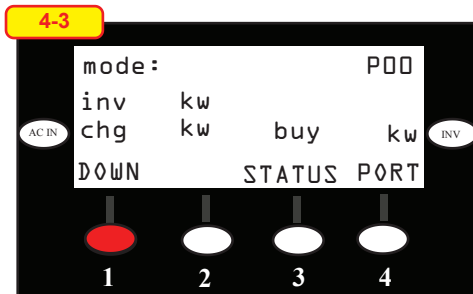
4 Checking Individual Inverter Input / Output:



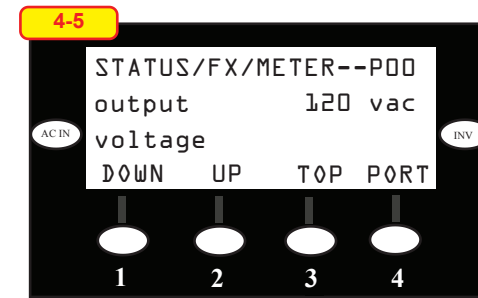
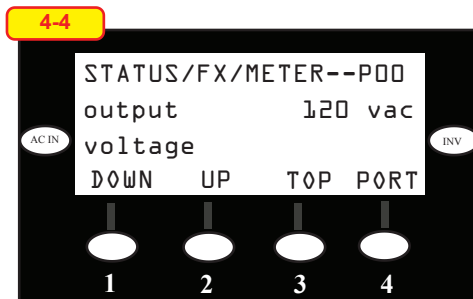
Press #2 STATUS METERS



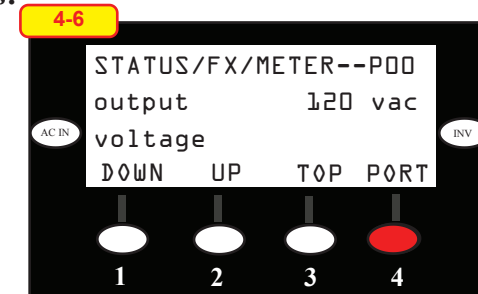
Press #1 METER



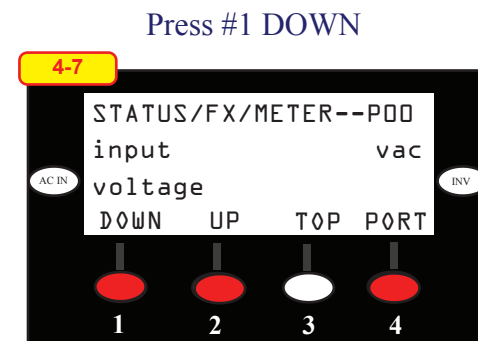
Press #1 DOWN



Check Output Voltages:



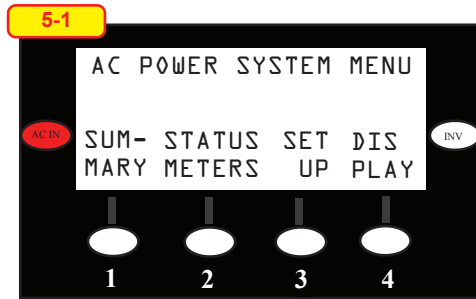
Check Input Voltages:



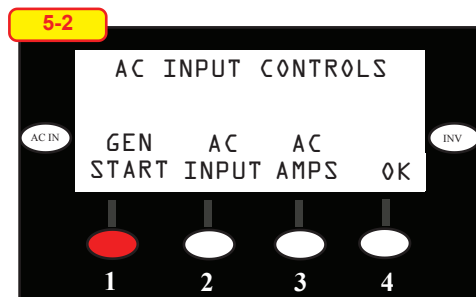
Press #1 DOWN

Press 1 and 2 simultaneously taking you back to AC POWER SYSTEM MENU

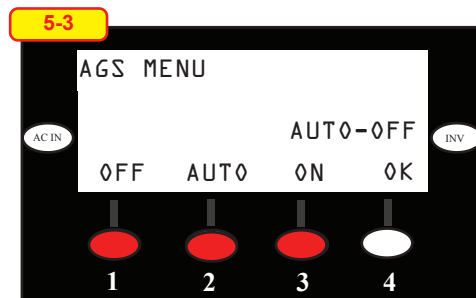
5 Generator Auto Start Control:



Press AC IN



Press #1 Gen Start

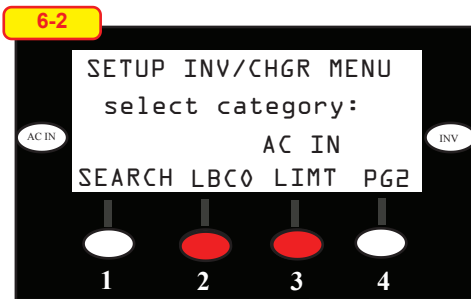
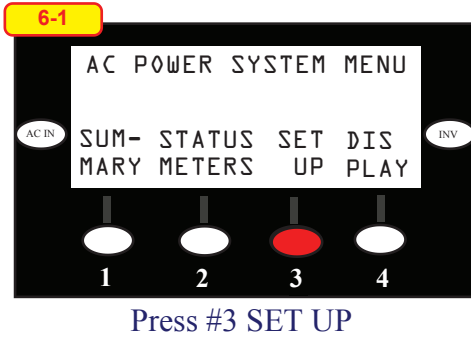


- Pressing #3 ON starts Generator and reads MAN-ON.
- Pressing #1 OFF stops Generator and reads MAN-OFF
- Pressing #2 AUTO changes from MAN to AUTO
- Mate should be in AUTO-OFF for auto start setting. Turning Generator ON then pressing #2 AUTO will let generator run and shut-off automatically after complete charge.

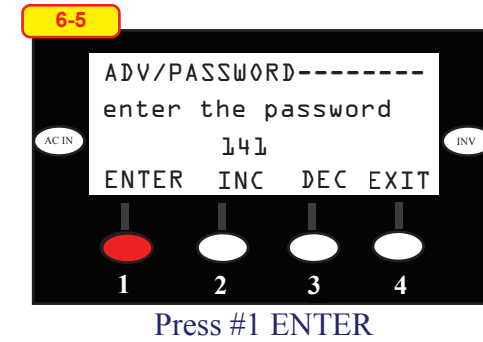
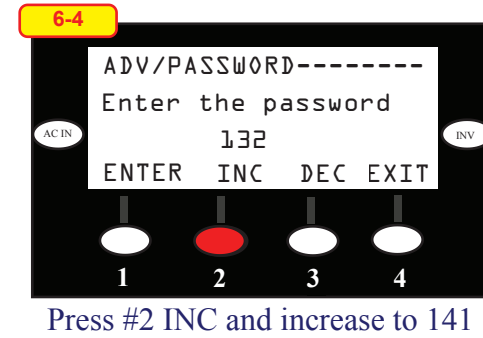
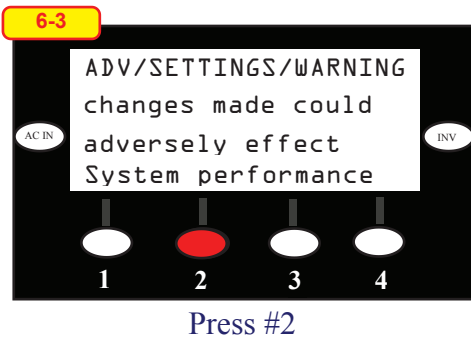
After done in this screen, press #4 OK, to return to AC Power System Menu

DO NOT go into AC AMP settings.

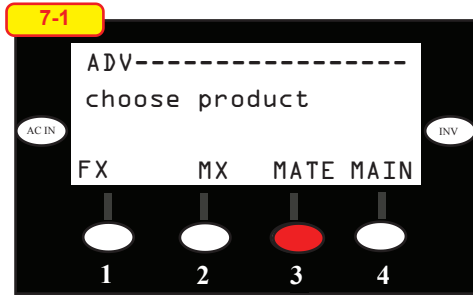
6 Advance Settings:



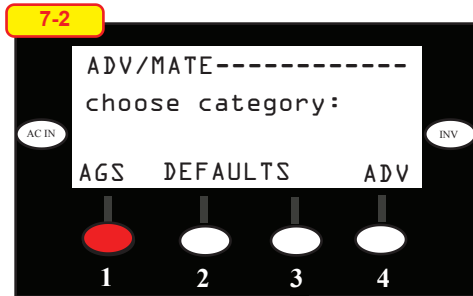
Press #2, LBCO, and #3, AC IN LIMT, simultaneously, hold for split second. (If you do not push buttons correctly and get into wrong screen, just press #4 OK and try again.)



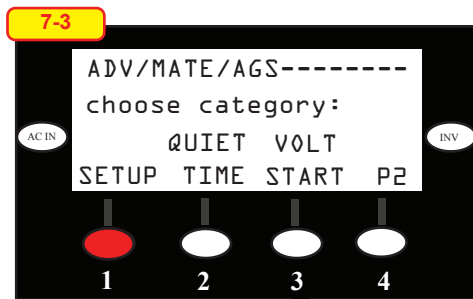
7 Generator Auto Start Settings:



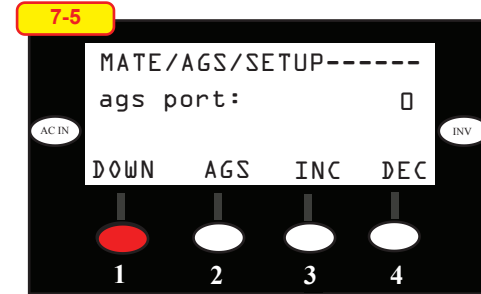
Press #3 MATE



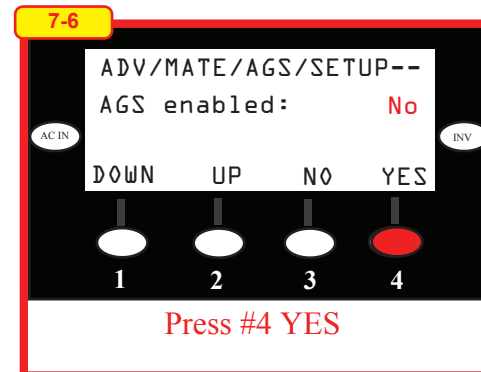
Press #1 AGS



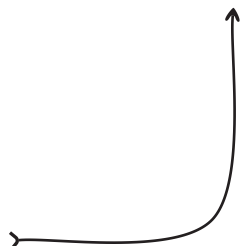
Press #1 SETUP

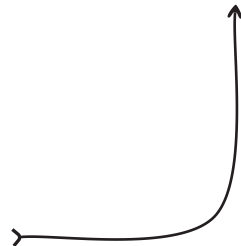
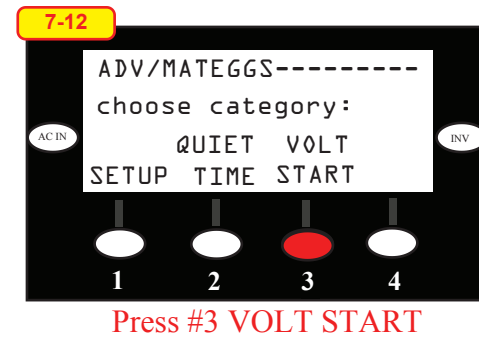
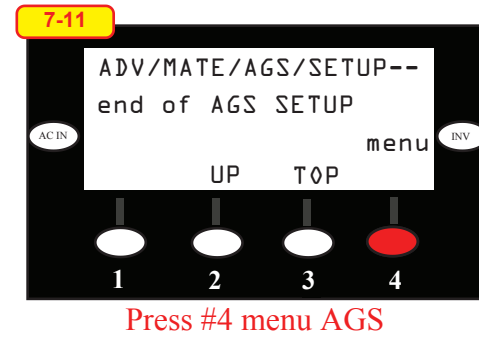
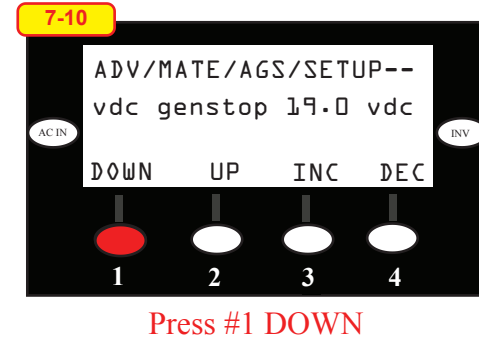
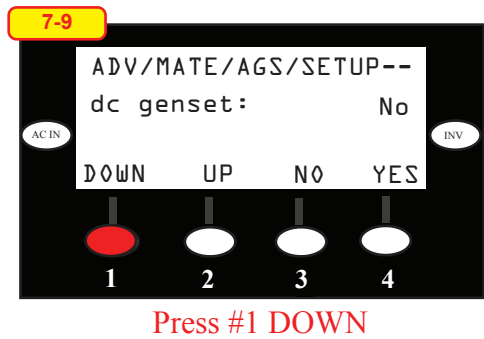
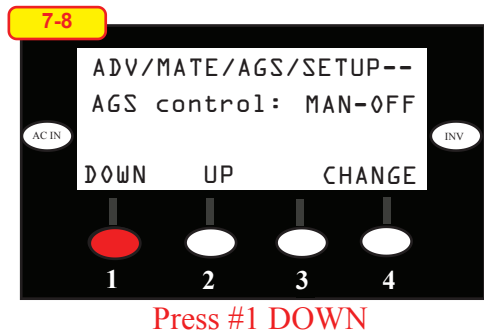
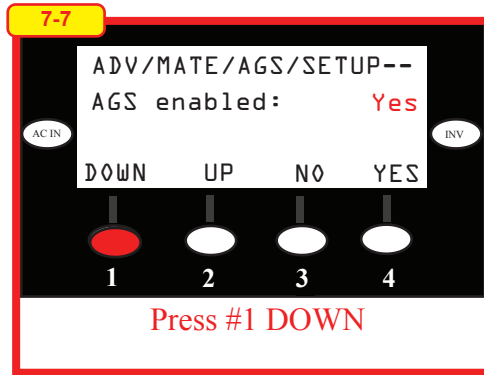


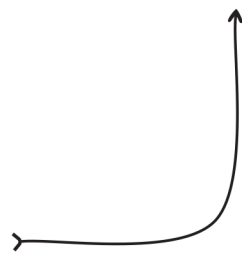
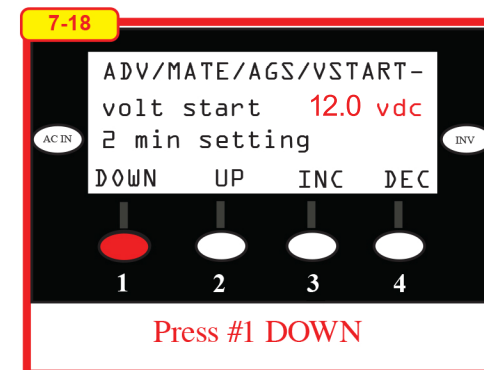
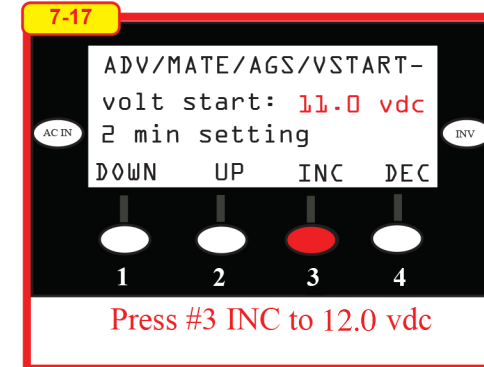
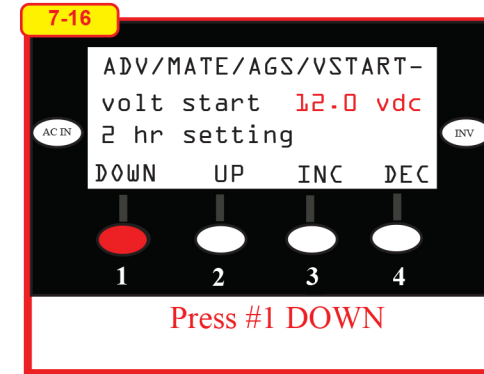
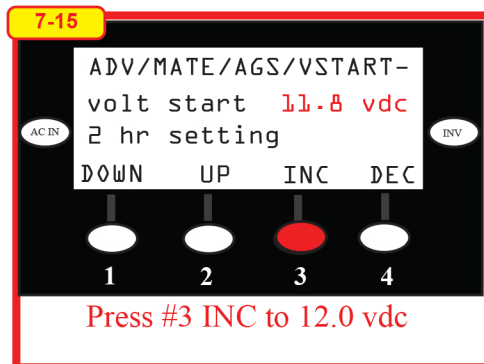
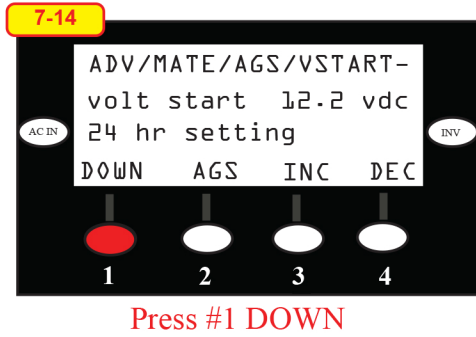
Press #1 DOWN

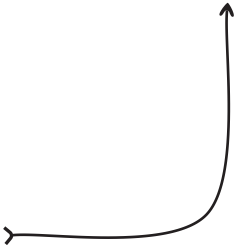
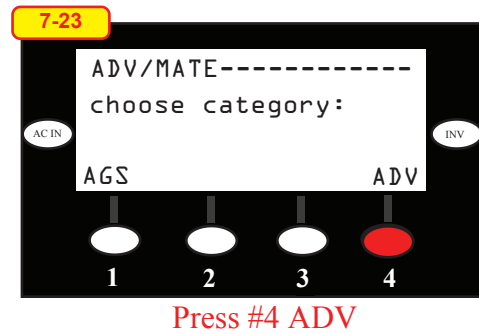
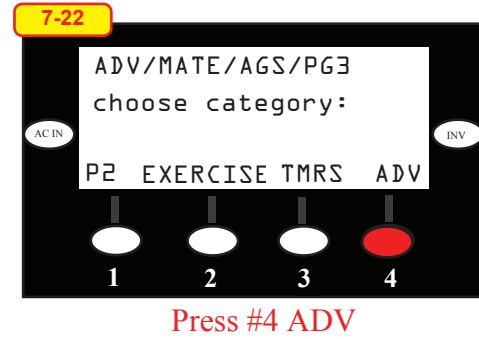
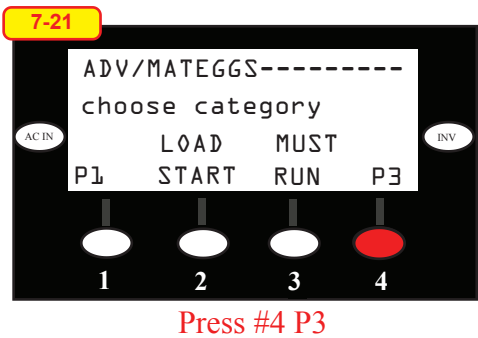
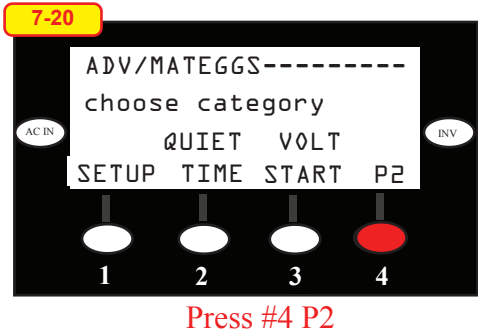
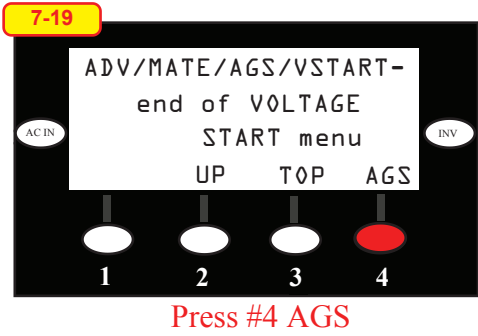


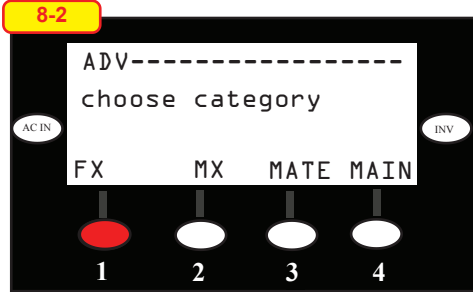
Press #4 YES



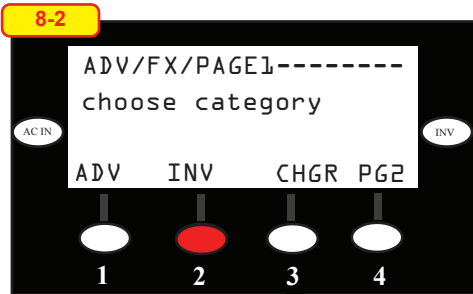




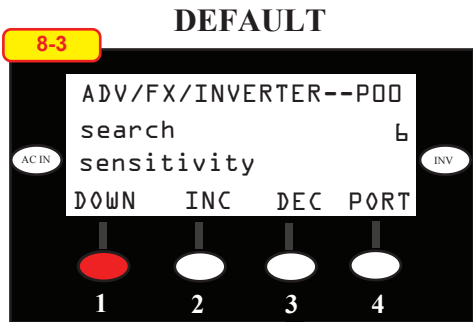




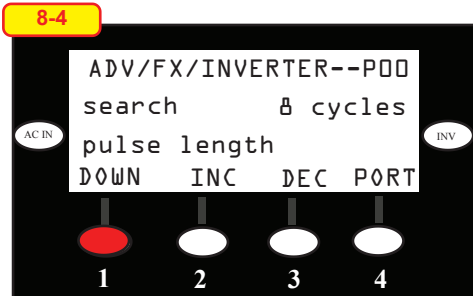
Press #1 FX



Press #2 INV



Press #1 DOWN

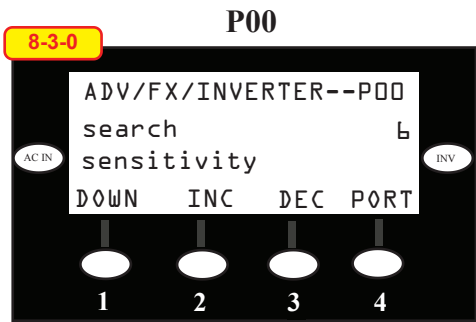


Press #1 DOWN

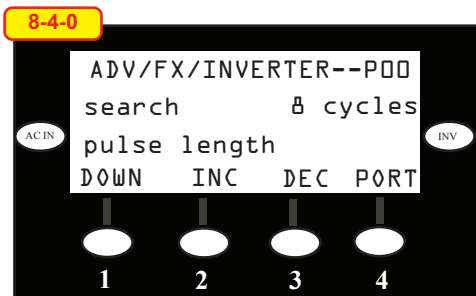
8 Inverter Setup:

You need to first go through steps in section 6 if you are not already in the advanced menu. Inverter programming should be done as soon as installation is complete and DC breakers are turned on first time. Column 1 shows default settings from factory. Column 2, labeled P00, shows setting of inverter. ONLY screens framed in red need to be changed. All other screens stay at default setting, same as column 1.

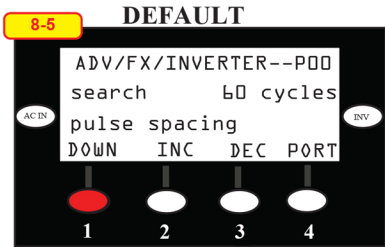
Please check all settings including defaults to make sure all settings are correct.



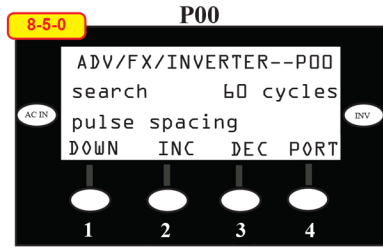
Press #1 DOWN



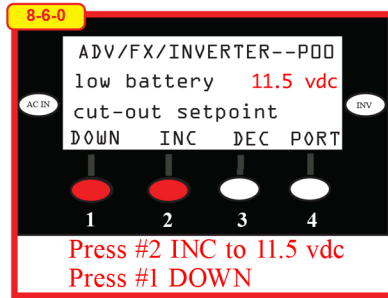
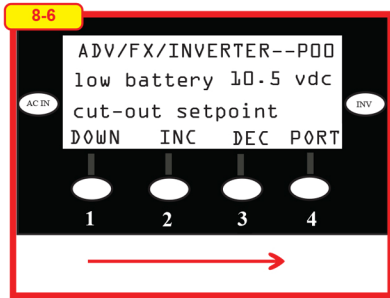
Press #1 DOWN



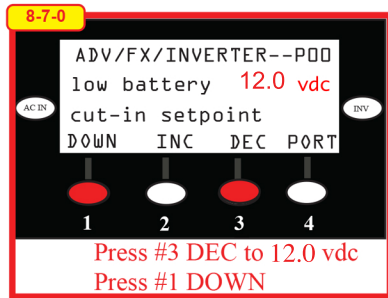
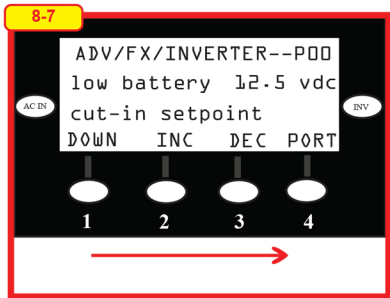
Press #1 DOWN



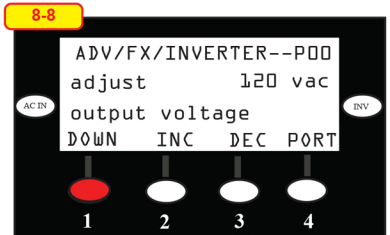
Press #1 DOWN



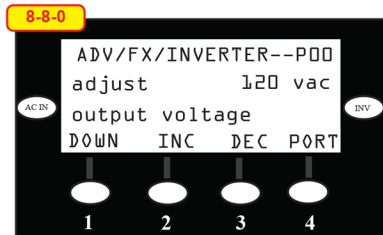
Press #2 INC to 11.5 vdc
Press #1 DOWN



Press #3 DEC to 12.0 vdc
Press #1 DOWN



Press #1 DOWN



Press #1 DOWN

Resetting Inverter to Factory Defaults:

Skip screens 8-9 to 8-13 if you are not resetting to OutBack factory defaults.

8-9

(skip)

ADV/FX/INVERTER-----
reset FX to factory
defaults
DOWN MORE

1 2 3 4

Press #4 MORE

8-10

(skip)

ADV/FX/INVERTER--POD
choose fx port
then press next
EXIT PORT NEXT

1 2 3 4

Press #4 NEXT

8-11

(skip)

ADV/FX/INVERTER--POD
press button 1
EXIT 1 2

1 2 3 4

Press #2 - 1

8-12

(skip)

ADV/FX/INVERTER--POD
press button 2
Exit 1 2 ready

1 2 3 4

Press #3 - 2

8-13

(skip)

ADV/FX/INVERTER--POD
press button 2
EXIT 1 2 done

1 2 3 4

Press #1 - EXIT

8-14

ADV/FX/INVERTER-----
reset FX to factory
defaults
DOWN MORE

1 2 3 4

Press #1 DOWN

8-15

ADV/FX/INVERTER-----
inverter programming
completed
TOP ADV MAIN

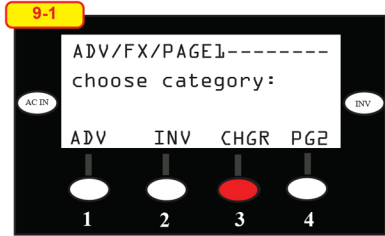
1 2 3 4

Press #3 ADV

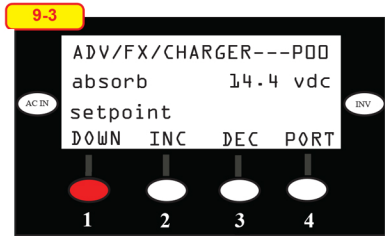
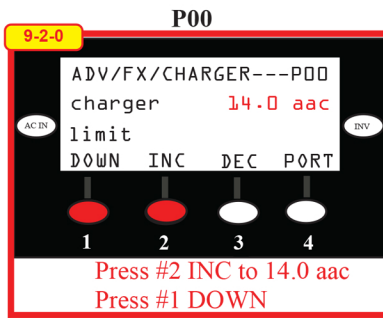
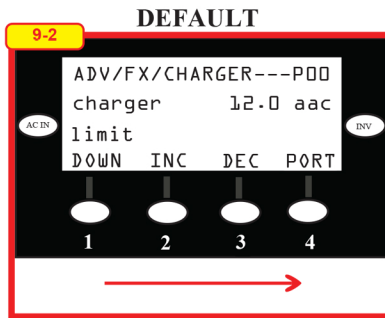
9 Charger Setup:

You need to first go through steps in section 6 if you are not already in the advanced menu. Inverter programming should be done as soon as installation is complete and DC breakers are turned on first time. Column 1 shows default settings from factory. Column 2, labeled P00, shows setting of inverter. ONLY screens framed in red need to be changed. All other screens stay at default setting, same as column 1.

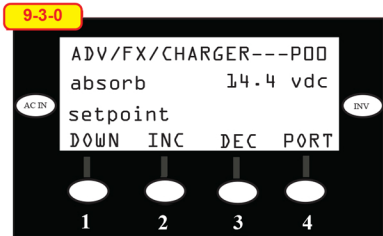
Please check all settings including defaults to make sure all settings are correct.



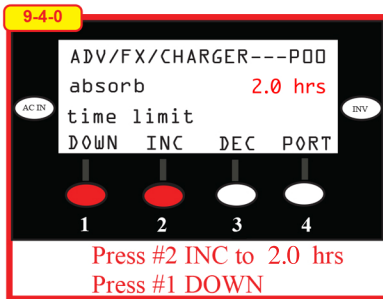
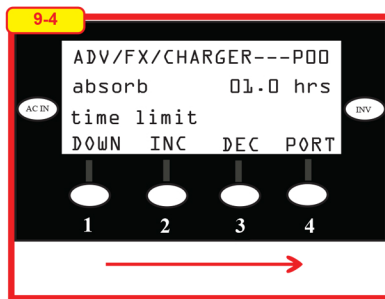
Press #3 CHGR



Press #1 DOWN



Press #1 DOWN



Press #2 INC to 2.0 hrs
Press #1 DOWN

DEFAULT

9-5

ADV/FX/CHARGER---POD
float 13.6 vdc
setpoint
DOWN INC DEC PORT

1 2 3 4

→

P00

9-5-0

ADV/FX/CHARGER---POD
float 14.0 vdc
setpoint
DOWN INC DEC PORT

1 2 3 4

Press #2 INC to 14.0 vdc
Press #1 DOWN

9-6

ADV/FX/CHARGER---POD
float 01.0 hrs
time period
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

9-6-0

ADV/FX/CHARGER---POD
float 01.0 hrs
time period
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

9-7

ADV/FX/CHARGER---POD
refloat 12.5 vdc
setpoint
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

9-7-0

ADV/FX/CHARGER---POD
refloat 12.5 vdc
setpoint
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

9-8

ADV/FX/CHARGER---POD
equaliz 14.4 vdc
setpoint
DOWN INC DEC PORT

1 2 3 4

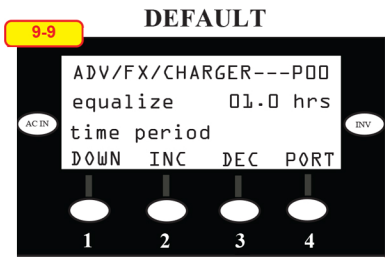
→

9-8-0

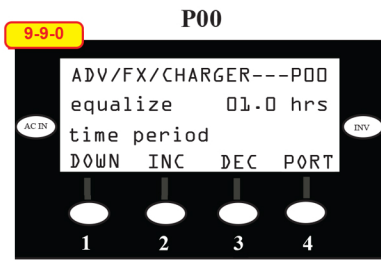
ADV/FX/CHARGER---POD
equalize 14.0 vdc
setpoint
DOWN INC DEC PORT

1 2 3 4

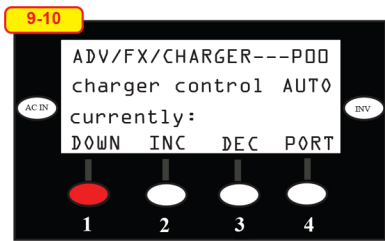
Press #3 DEC to 14.0 vdc
Press #1 DOWN



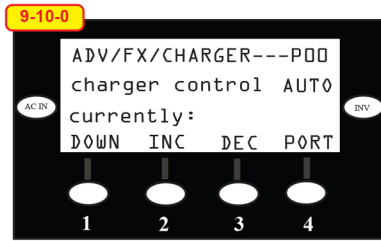
Press #1 DOWN



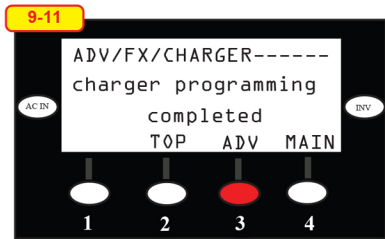
Press #1 DOWN



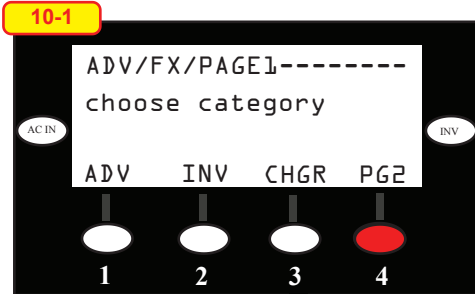
Press #1 DOWN



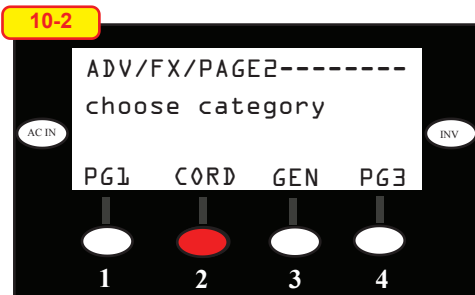
Press #1 DOWN



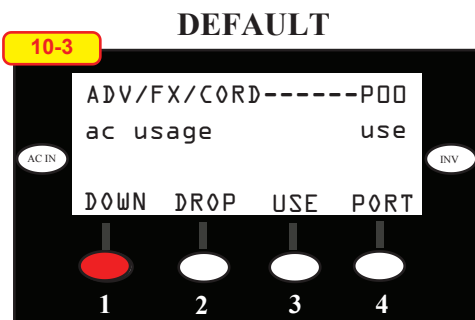
Press #3 ADV



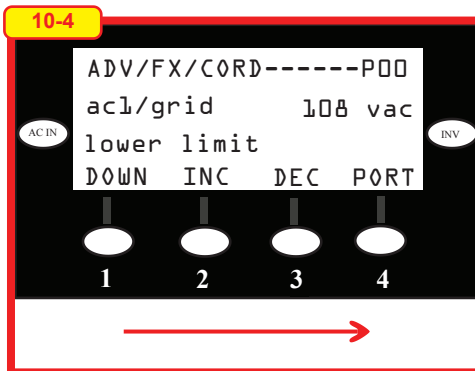
Press #4 PG2



Press #2 CORD



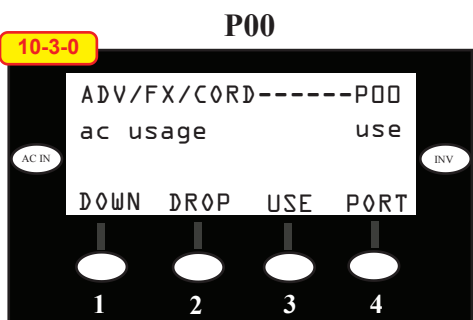
Press #1 DOWN



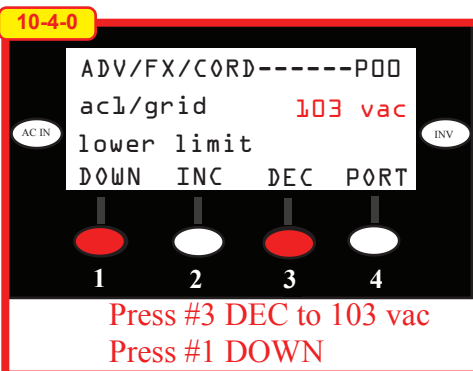
10 Cord Setup:

You need to first go through steps in section 6 if you are not already in the advanced menu. Inverter programming should be done as soon as installation is complete and DC breakers are turned on first time. Column 1 shows default settings from factory. Column 2, labeled P00, shows setting of inverter. ONLY screens framed in red need to be changed. All other screens stay at default setting, same as column 1.

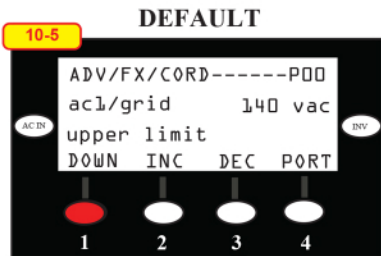
Please check all settings including defaults to make sure all settings are correct.



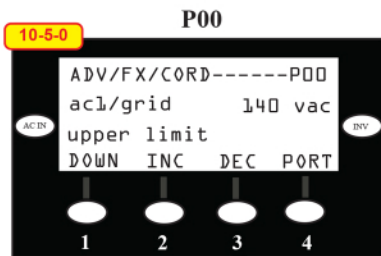
Press #1 DOWN



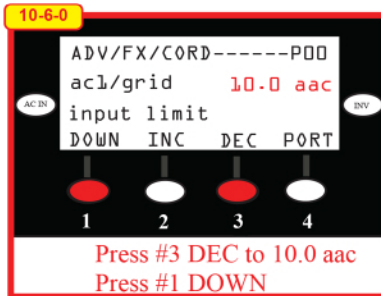
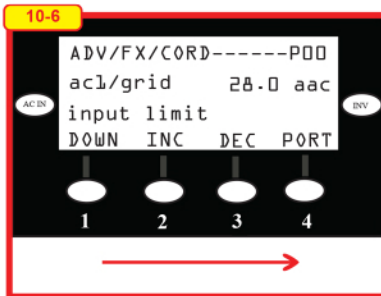
Press #3 DEC to 103 vac
Press #1 DOWN



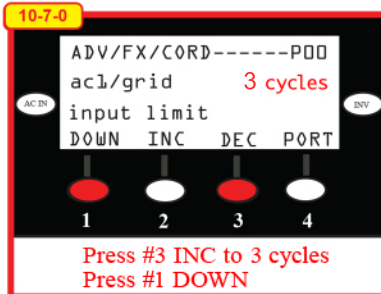
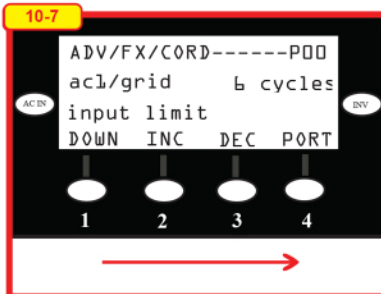
Press #1 DOWN



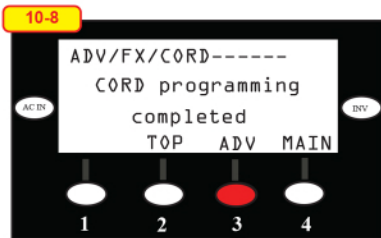
Press #1 DOWN



Press #3 DEC to 10.0 aac
Press #1 DOWN

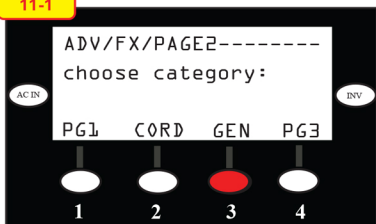


Press #3 INC to 3 cycles
Press #1 DOWN



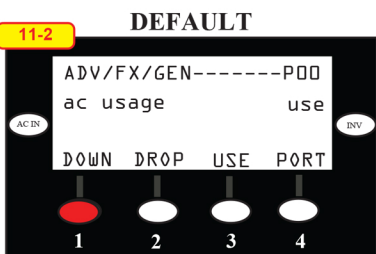
Press #3 ADV

11-1



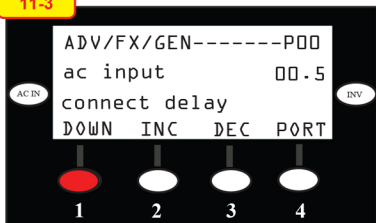
Press #3 GEN

11-2



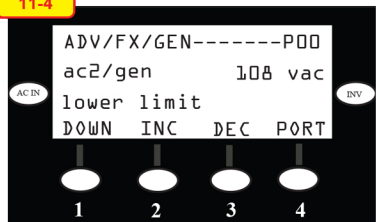
Press #1 DOWN

11-3



Press #1 DOWN

11-4



Press #1 DOWN

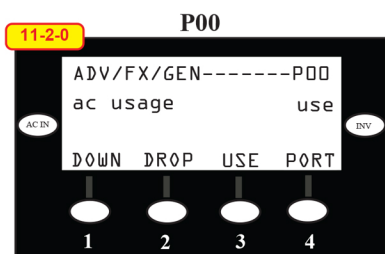
11

Generator Input Setup:

You need to first go through steps in section 6 if you are not already in the advanced menu. Inverter programming should be done as soon as installation is complete and DC breakers are turned on first time. Column 1 shows default settings from factory. Column 2, labeled P00, shows setting of inverter. ONLY screens framed in red need to be changed. All other screens stay at default setting, same as column 1.

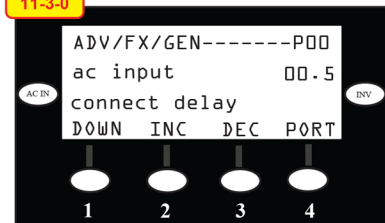
Please check all settings including defaults to make sure all settings are correct.

11-2-0



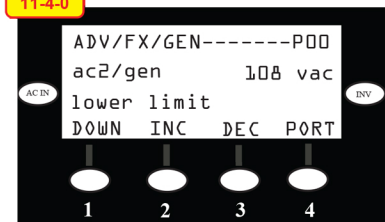
Press #1 DOWN

11-3-0



Press #1 DOWN

11-4-0



Press #1 DOWN

11-5 **DEFAULT**

ADV/FX/GEN-----POD
ac2/gen 140 vac
upper limit
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

11-5-0 **P00**

ADV/FX/GEN-----POD
ac2/gen 140 vac
upper limit
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

11-6

ADV/FX/GEN-----POD
ac2/gen 28.0 aac
input limit
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

11-6-0

ADV/FX/GEN-----POD
ac2/gen 28.0 aac
input limit
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

11-7

ADV/FX/GEN-----POD
ac2/gen 60 cycles
transfer delay
DOWN INC DEC PORT

1 2 3 4

→

11-7-0

ADV/FX/GEN-----POD
ac2/gen 3 cycles
transfer delay
DOWN INC DEC PORT

1 2 3 4

Press #3 DEC to 3 cycles
Press #1 DOWN

11-8

ADV/FX/GEN-----POD
ac2/gen support
DOWN OFF ON PORT

1 2 3 4

Press #1 DOWN

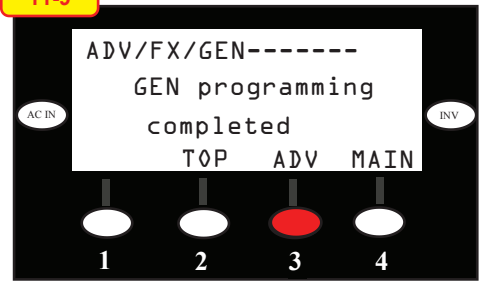
11-8-0

ADV/FX/GEN-----POD
ac2/gen support
DOWN OFF ON PORT

1 2 3 4

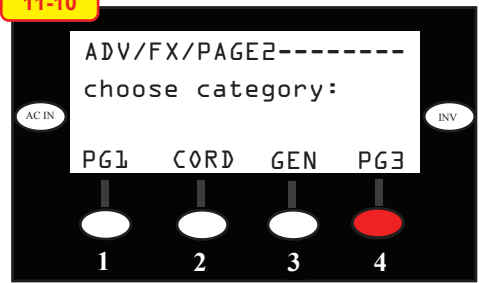
Press #1 DOWN

11-9



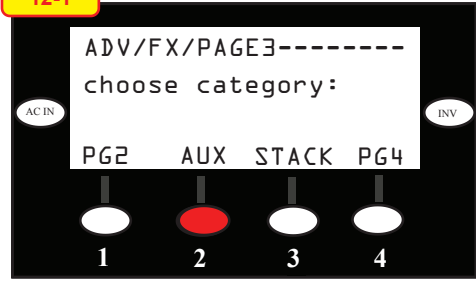
Press #3 ADV

11-10



Press #4 PG3

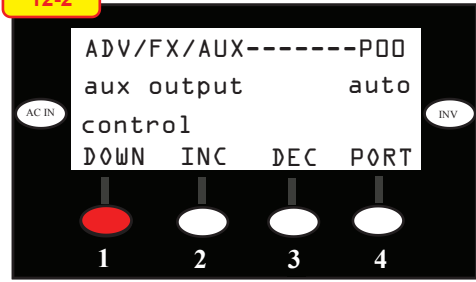
12-1



Press #2 AUX

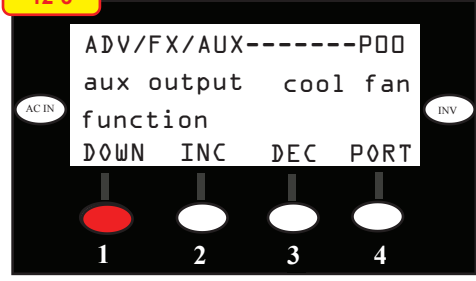
12-2

DEFAULT



Press #1 DOWN

12-3



Press #1 DOWN

12

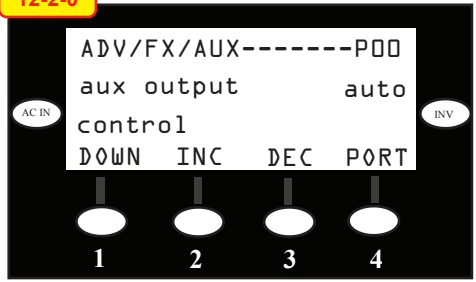
Aux Setup:

You need to first go through steps in section 6 if you are not already in the advanced menu. Inverter programming should be done as soon as installation is complete and DC breakers are turned on first time. Column 1 shows default settings from factory. Column 2, labeled P00, shows setting of inverter. **ONLY** screens framed in red need to be changed. All other screens stay at default setting, same as column 1.

Please check all settings including defaults to make sure all settings are correct.

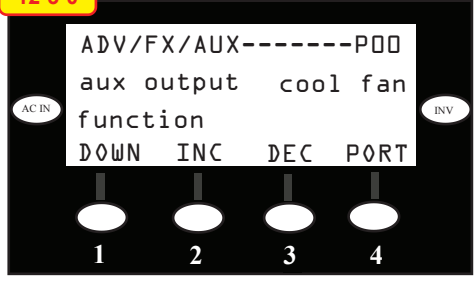
12-2-0

P00



Press #1 DOWN

12-3-0



Press #1 DOWN

12-4 **DEFAULT**

Press #1 DOWN

12-4-0 **P00**

Press #1 DOWN

12-5

Press #1 DOWN

12-5-0

Press #1 DOWN

12-6

Press #1 DOWN

12-6-0

Press #1 DOWN

12-7

Press #1 DOWN

12-7-0

Press #1 DOWN

12-8 **DEFAULT**

ADV/FX/AUX-----PO0
loadshed 11.0 vdc
off setpoint
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

12-8-0 **P00**

ADV/FX/AUX-----PO0
loadshed 11.0 vdc
off setpoint
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

12-9

ADV/FX/AUX-----PO0
ventfan 13.0 vdc
on setpoint
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

12-9-0

ADV/FX/AUX-----PO0
ventfan 13.0 vdc
on setpoint
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

12-10

ADV/FX/AUX-----PO0
ventfan off 5 min
period
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

12-10-0

ADV/FX/AUX-----PO0
ventfan off 5 min
period
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

12-11

ADV/FX/AUX-----PO0
diversion 14.6 vdc
on setpoint
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

12-11-0

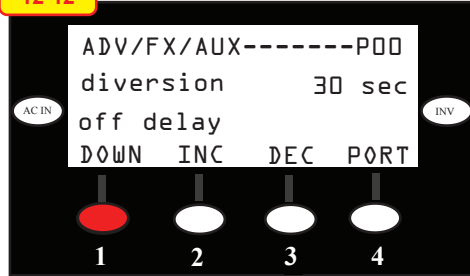
ADV/FX/AUX-----PO0
diversion 14.6 vdc
on setpoint
DOWN INC DEC PORT

1 2 3 4

Press #1 DOWN

12-12

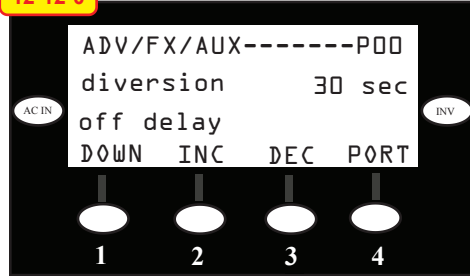
DEFAULT



Press #1 DOWN

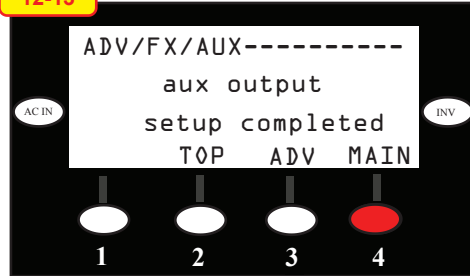
12-12-0

P00



Press #1 DOWN

12-13



Press #4 MAIN