PX01 User Manual

INTRODUCTION

The No Saw Cut Board is the main driver behind Carttronics POPS ®. The purpose of this document is to provide information for use within the Carttronics Network.

TABLE OF CONTENTS

SWITCHES/LEDS/PUSH BUTTONS VERFICATION

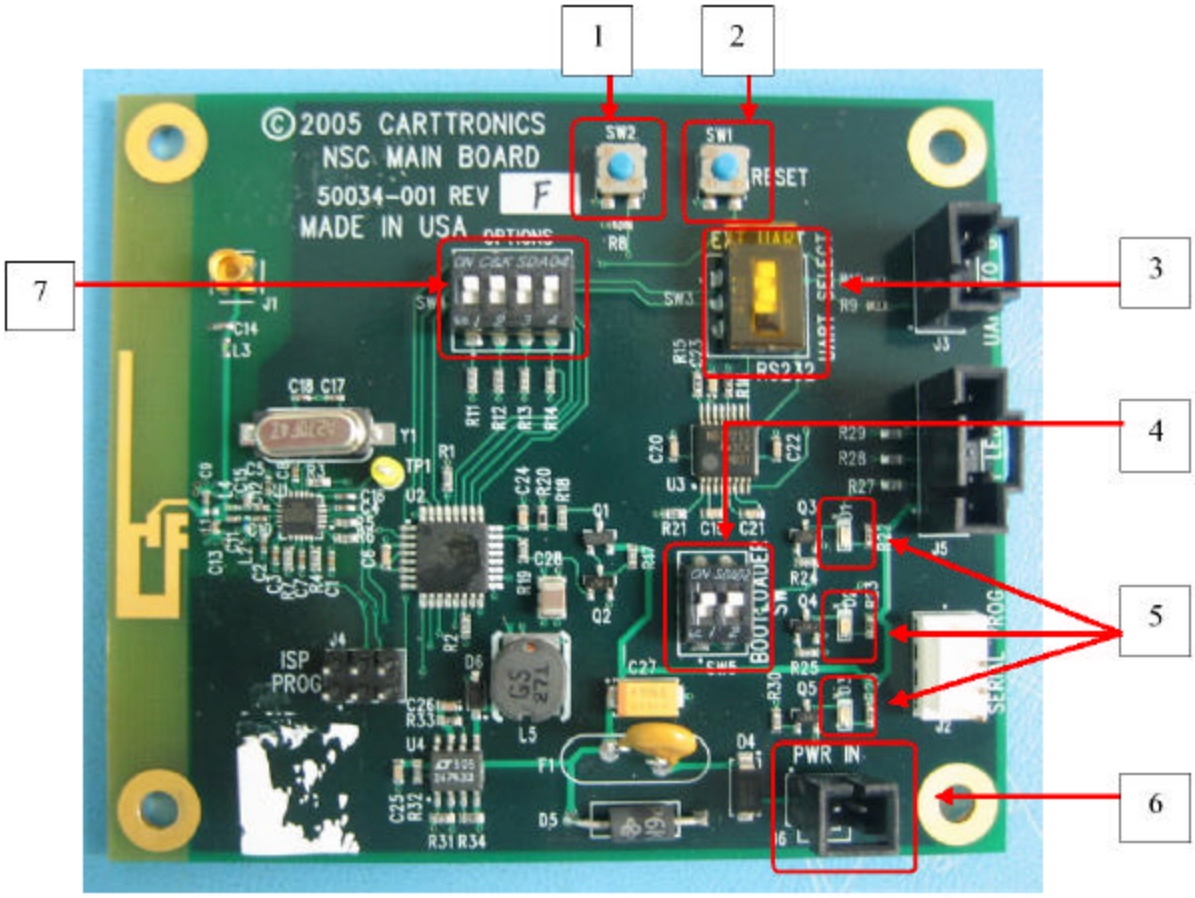

Figure 1 NSC Switch Settings

1. SW2

SW2 is use to set the personality of the NSC. Each time it is pressed, the configuration advances to the next selection and this is indicated by the blinking patterns of LED D1 (see below).

DEVICE TYPE	BLINK PATTERN (D1)
TX0	1
TXS	2
TX PR	3
TX PI	4
TX Z	5
RXL	6
TXSF	7
PUSHOUT ENABLE	8
PUSHOUT DISABLE	9
DEEP SLEEP	10

For example:

1.) Press Reset to determine the current configuration. If the unit is at the default setting, a light will blink four times to indicate the unit is a TXPI.
2.) Briefly press SW2. A light will five times. This is the new configuration; you have reprogrammed the pole to be a TXZ, a Short Sleep Beacon. You can test this by pressing Reset and you should see five blinks in return.
3.) Briefly press SW2 again. A light will now blink six times. Again, you can press Reset to verify the unit is now a RXL.

2. SW1 - Reset

A press and release on SW1 will force a processor reset. When it is pressed, LED D1 will flash the device's personality configuration.

3. SW3 – UART (Universal Asynchronous Receiver- Transmitter) SELECTOR

SW3 is use to select the communication between a GPRF neighbor board for Carttronics network communication and a PC for testing. For normal operation with a GPRF board connected, the switch should be on in its default setting.

GPRF CONNECTED (default setting)	PC COMMUNICATION
1. ON (North Pos)	1. OFF (South Pos)

4. BOOT LOADER SWITCHES SW5

The boot loader switch is for selecting between operational and install mode. In normal operation, the boot loader switches should be off in operational mode.

INSTALL MODE	OPERATIONAL
SW1: ON (north pos)	SW1: OFF
SW2: ON (north pos)	SW2: OFF

5. LEDS

LED D1 Blinks the selected configuration when the reset button is pressed.
LED D2 indicates forced Automatic or Armed mode when lit.
LED D3 indicates the device is armed.

To conserve battery power, all the LEDS are off in normal operations until a change is made.

6. BATTERY INPUT CONNECTOR J6

Plug in connector. This provides power from the battery or a neighbor board.

7. OPTIONS SWITCH SELECT

SW4 is used for setting the power level settings for the NSC. To manually set the power level, follow these steps.

1.) Locate the SW4 DIP Switches.
2.) Choose the power level desired from the table below and adjust the switches.
3.) Press the reset button on the NSC PCBA. After changing the switches, you must press the reset button for the change to take effect!) After you press the reset button, the green LED D1 will flash the device's current configuration.
4.) Test the performance and re-adjust if necessary. It is helpful to take notes and record power level settings and performance to reduce the number of re-adjustments necessary.

SW1	SW2	SW3	SW4	Power Level	Front Beacon Reach, ft, (meters)	Back Beacon Reach, ft, (meters)
on	on	on	on	15		
on	on	on	off	14		
on	on	off	on	13		
on	on	off	off	12		
on	off	on	on	11		
on	off	on	off	10		
on	off	off	on	9		
on	off	off	off	8	40' (12m)	5' (2m)
off	on	on	on	7		
off	on	on	off	6		
off	on	off	on	5	20' (6m)	3' (1m)
off	on	off	off	4	15' (4m)	3' (1m)
off	off	on	on	3		
off	off	on	off	2		
off	off	off	on	1 Low		
off	off	off	off	0 Off	OFF	

FCC ID: USH00002

IC: 6834A-00002

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment