



NATIONAL PRIDE EQUIPMENT METER BOX USER'S MANUAL



SKIP PAGE

METER BOX

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INTRODUCTION

This User's Manual outlines installation, operation, maintenance and troubleshooting details vital to the sustained performance of your system.

The test results which are included with this User's Manual indicate your system's permeate and concentrate test results.

NOTE: IN ORDER TO MAINTAIN THE MANUFACTURER WARRANTY, AN OPERATING LOG MUST BE MAINTAINED AND COPIES WILL NEED TO BE SENT TO NATIONAL PRIDE EQUIPMENT FOR REVIEW.

NOTE: PRIOR TO OPERATING OR SERVICING THE METER BOX, THIS USER'S MANUAL MUST BE READ AND FULLY UNDERSTOOD.

NOTE: IT IS UNSAFE TO OPERATE OR SERVICE THIS DEVICE WITHOUT FIRST READING AND UNDERSTANDING THE ENTIRE USER'S MANUAL. KEEP THIS MANUAL AND OTHER ASSOCIATED DOCUMENTATION FOR FUTURE REFERENCE.

SAFETY

This Safety section of this User's Manual outlines the various safety headings used throughout this manual's text and are enhanced and defined below:

NOTE: INDICATES STATEMENTS THAT PROVIDE FURTHER INFORMATION AND CLARIFICATION.

CAUTION: INDICATES STATEMENTS THAT ARE USED TO IDENTIFY CONDITIONS OR PRACTICES THAT COULD RESULT IN EQUIPMENT OR ANY TYPE OF PROPERTY DAMAGE.

WARNING: INDICATES STATEMENTS THAT ARE USED TO IDENTIFY CONDITIONS OR PRACTICES THAT COULD RESULT IN INJURY OR LOSS OF LIFE. FAILURE TO FOLLOW WARNINGS COULD RESULT IN SERIOUS INJURY OR EVEN DEATH.

WARNING: DO NOT REMOVE ANY CAUTION, WARNING, OR OTHER DESCRIPTIVE LABELS FROM THE EQUIPMENT.

WARNING: DO NOT REMOVE ANY PAGES FROM THE SUPPLIED READING MANUALS OR OTHER INFORMATIONAL DOCUMENTS.

SAFETY

WARNING: UNIT INSTALLATION MUST ADHERE TO ALL LOCAL ELECTRICAL AND PLUMBING CODES.

WARNING: ALL MAINTENANCE AND REPAIR ACTIONS ARE TO BE PERFORMED BY MAINTENANCE PERSONNEL WHO HAVE BEEN TRAINED AND FULLY READ THE DOCUMENTATION FOR ALL SYSTEM INFORMATION.

CAUTION: ALL ELECTRICAL POWER MUST BE TURNED OFF AND THE LOCK OUT PROCEDURE MUST BE UTILIZED TO ENSURE ALL POWER IS SHUT OFF PRIOR TO SERVICING OR PERFORMING SYSTEM MAINTENANCE TO ANY PORTION OF THE EQUIPMENT.

CAUTION: DO NOT OPERATE THIS DEVICE IN AN EXPLOSIVE ENVIRONMENT OR IN THE PRESENCE OF FLAMMABLE MATERIALS.

WARNING: MOVEMENT OR VIBRATIONS DURING SHIPMENTS MAY CAUSE CONNECTIONS TO LOOSEN. PLEASE CHECK ALL CONNECTIONS PRIOR TO TURNING ON THE POWER.

WARNING: DO NOT OPERATE THIS UNIT IN ENVIRONMENTS WHERE TEMPERATURES MAY BE BELOW 40 DEGREES F OR ABOVE 90 DEGREES F.

CAUTION: FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN DAMAGE TO EQUIPMENT OR PERSONAL INJURY.



SYSTEM OVERVIEW

National Pride Equipment has developed and manufactured high-security meter boxes entirely of 304 stainless steel, the walls of the bay meter boxes are over 33% thicker than the competition's boxes and exceed the challenges of today's environment. Our meter boxes are customizable and built to ensure you as an owner and your customers have the best experience possible, by making the payment system and functionality efficient and easy to use.

METER BOX FEATURES

PREMIUM GRADE METER BOXES

National Pride specializes in self-serve car wash equipment. We refuse to manufacture bay meters that are anything less than the toughest and most secure in the industry. Constructed entirely of 304 stainless steel, the walls of the bay meter boxes are over 33% thicker than the competition's boxes and exceed the challenges of today's environment.

DIMENSIONS

13.5" W x 17.5" H x 8.5" D

STANDARD FEATURES

- Mars bill acceptor (500 bill stacker)
- Multi-coin adapter
- LED7 display timer
- Last minute alert horn
- 10-position rotary switch
- (2) High security Medeco plug locks
- (2) 1/4" lock bars and Diskus locks
- 24VAC internal heater
- Quick disconnect terminal strip
- Customized decals
- UL & CSA rated

ADDITIONAL OPTIONS

- 8, 10 or 12 position rotary switch
- Vault ready, internal coin tray, external coin box
- Credit card systems; Hamilton, Unitec or Cryptopay
- Weather shield
- SAF-12 coin vaults (SS, Square, Medeco Lock)
- Rear entry



CUSTOMIZABLE BAY HARDWARE & SIGNS AVAILABLE FOR YOUR BRAND

MOST SECURE & RUGGED BAY METER BOX IN THE CAR WASH INDUSTRY

METER BOX REPLACEMENT PARTS

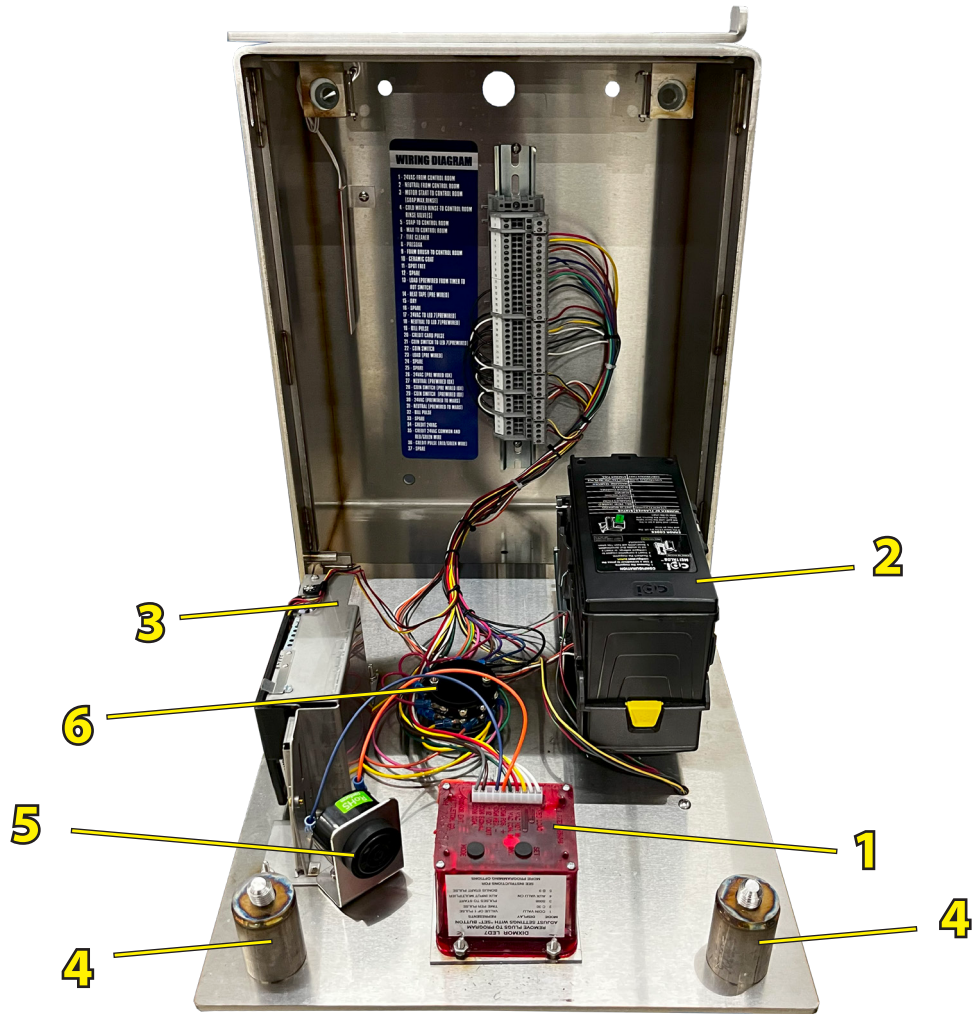
Product ID #	Product Description
STR7758D-BL1-Standard	3/16" Meter Boc Assy
t612-U53US	Talos Validator, 24 Volt
ES0215	Electroswitch 10 Position 2 Stack Rotary
CRYTPO-SW	Cryptopay, Credit card swiper
DX7	Dixmor LED 7
GS042	Ginsan 2" Sensortron Coin Acceptor
DXHORN	Dixmor HORN 12/24 Volt DC
STR104265-S	Stainless Steel Regulator Bracket
TMW-10	Lexan Window for Dixmor Timer
3045318	Ter. Block w/ Plug
3045347	Pheonix UPBV 2.5/1-M
WH-4M-1	Mars wiring harness
LO0194	Medeco plug lock housing only
STR758D-W	Meter Box Wrench T-Handle
3045017	Phoenix ATP-UT parition plate
3047167	Phoenix UPBV 2.5/1-R
0800886	Phoenix End Bracket
1050020-110	Zack Marker Strip 1-10
1050020-1120	Zack Marker Strip 11-20
1050020-2130	Zack Marker Strip 21-30
1050020-3140	Zack Marker Strip 31-40
D-914A	Meter Box Decal
D-914A-WDD	Wiring Diagram Decal
MW1013-P-6MA91762	Medeco Plug Lock
MW1013-K-6MA91762	Medeco Key Only
DXRemoteControl	Dixmor Remote Control
AB2470-EE0230	ABUS Weatherproof Diskus Lock
ES238	Rotary Knob Yellow
1283-CM	Meter Box Heat Tape

METER BOX LAYOUT



Product Name	Product ID
1. Rotary Knob	ES238
2. Coin Cup	CM4900003
3. Crypto Pay Swipe	CRYPTO-SW
4. Decal	D0914AC
5. Lock Box	STR76425-DL

METER BOX LAYOUT



Product Name	Product ID
1. DX7 Timer	DX7
2. Validator	T612-U5EUS
3. Coin Mech	MA850
4. Lock Kit	STR758D-BLLKA
5. Horn	DXHORN
6. Rotary Switch	ES0215

TALOS T6/T8 GUIDE



Talos T6/T8™ Coupon Guide

Carefully cut coupon from this page or make one copy of this coupon.

Copies are usable if made on a standard, carbon-based copier. Make one copy of the original at a time, as copiers tend to reduce the size of the coupon when multiple copies are made.

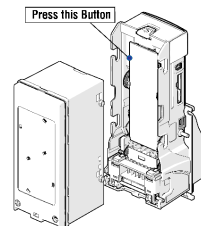
Fill out the coupon using a #2 (HB) pencil. Fill in one block for each line. Do not mark the back of the coupon.

Note that Talos units are preconfigured with the following options enabled:

- Bill Ways Accepted: Four Way
- T6 Bills Enabled: \$1 - \$20
- T8 Bills Enabled: \$1 - \$100
- Pulse Width: Gaming Short
- Pulses Per Dollar: One
- Interface Mode: Harness Enable
- Acceptance Mode: Mode Zero

Initiating Coupon Mode

1. Remove the bill magazine
2. Use a pencil or a screwdriver to press this button to enter configuration mode, then reattach the bill magazine to initiate Coupon mode:



When coupon mode is activated, the bezel lights will rapidly flash

1. Insert a completed configuration coupon
2. Watch the bezel LEDs and count the flashes when the configuration coupon is returned
3. Use this chart to confirm successful programming:

Flashes	Meaning
10	Configuration coupon accepted and unit successfully programmed.
1 - 5	Coupon rejected. Number of flashes corresponds to the coupon section that was improperly filled out. Try again.
7	Coupon not read. Confirm the coupon correct and try again.

253158027 G1

TALOS T6/T8 GUIDE

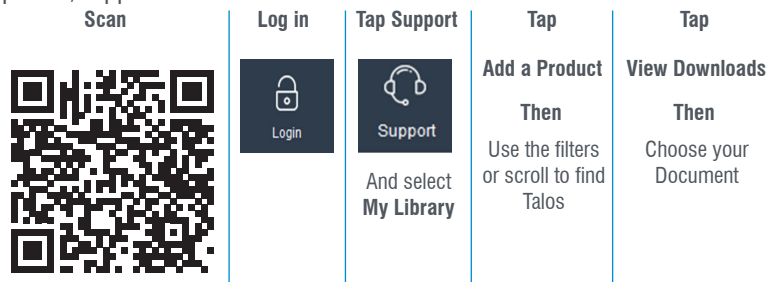
FREE VEND COUPONS AND BILL PROGRAMMING

Follow the same process to program the Talos with bills or free vend coupons, but note that the LED codes are slightly different:

Flashes	Meaning
10	The bill or vend coupon has been enabled successfully
7	The bill validator was unable to read the bill or vend coupon. Try again.
3	The bill or vend coupon has been disabled

OTHER DOCUMENTATION

All support documentation, including a downloadable copy of this coupon, can be found at Cranepi.com/support.



TALOS T6/T8 GUIDE

COUPON SECTIONS

SECTION 1 - BILL WAYS

1 - Face up in one direction (green seal first)

2 - Face up in either direction

4 - Face up or down in either direction

SECTION 2 - BILL ENABLES

Fill in on or off to enable or disable a bill.

\$50 and \$100 - T8 Models Only

Fill in on or off to enable or disable a bill.

SECTION 3 - PULSE WIDTH

Sets the width of the pulse, check with your machine manufacturer for details.

SECTION 4 - PULSES PER DOLLAR

Credit pulses per dollar accepted, check with your machine manufacturer for details.

SECTION 5 - INTERFACE MODE

Harness Enable - requires an input from the controller to enable and accept bills.

Always Enable - allows for acceptance at all times, a host or controller cannot disable the unit.

SECTION 6 - ACCEPTANCE MODE

Mode 0 is default. Increasing Acceptance Mode increases security, but may also impact performance. Please contact CPI Technical Support for details.

Print actual size

66mm

T6/T8 Coupon	
Sections 1-5 <u>must be filled in</u> , section 6 is optional	
Bill ways accepted	1 2 4
Bill enables	on off
2	\$1 \$2 \$5 \$10 \$20
\$50 & \$100 for T800 models only	\$50 \$100
Pulse width	3 Gaming Short Gaming Long Vending Short Vending Long
Pulses per dollar	4 1 2 3 4
Interface mode	5 Harness Enable Always Enable
Acceptance mode	6 Mode 0 Mode 1 Mode 2 Mode 3
	



Cut carefully on the dotted line. The coupon should be the same size as an American bill when complete.

TALOS INSTALL GUIDE



INSTALLATION

Before installation, remove the Talos bill validator from the packaging and inspect for any physical damage. If damaged, contact customer service at 1-800-345-8215.

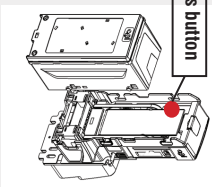
1. Turn off power to the vending machine.
2. Mount the Talos bill validator on the mounting studs, through the opening in the front of the vendor and secure using the included hardware.
3. Connect the Talos bill validator to the MDB harness. Apply gentle pressure to connect; the pins will bend if forced.
4. Turn on power to the vending machine.
5. Check the LEDs on the front of Talos. The LEDs should be flashing. In some cases, the machine door must be closed first.
6. Once the LEDs are flashing, test the validator with a \$1 bill.
 - a. Insert \$1 and confirm that it stacks and credit is given.
 - b. Repeat this process for any other enabled bills.
7. When your test is complete, remove the test bills from the bill magazine.

The installation is now complete. Refer to the other sections of this guide to configure the device, if necessary.

ENABLING BILLS AND VEND COUPONS

Follow this process to enable or disable bills or vend coupons:

1. Remove the bill magazine, then use a pencil or a screwdriver to press the button to enter configuration mode:



Press this button

2. Reattach the bill magazine.
3. Insert the bill or vend coupon.
4. The bezel LEDs flash when the bill or vend coupon is returned.
5. Count the flashes to determine the outcome using the chart on the next section.

ENABLING BILLS AND VEND COUPONS - CONTINUED

Number of Flashes	Meaning
10	The bill or vend coupon has been enabled successfully
7	The bill validator was unable to read the bill or vend coupon. Try again.
3	The bill or vend coupon has been disabled

CONFIGURATION COUPONS

The unit is pre-configured with the following options enabled:

- Accept \$1 bills
- Four way accept

Use the included coupon to change the settings:

1. Carefully cut out the coupon
2. Fill out each line using an HB or #2 pencil

Section	Changes	Options
1	Bill Way Accepted	1 - Face up in one direction (green seal first) 2 - Face up in either direction 4 - Face up or down in either direction
2	Bills Enabled	On or off to enable or disable a bill
3	Recycled Bill	Can be left blank, but is required for the recycler
4	Accept Inhibit	Requires a Recycler

CONFIGURATION COUPONS - CONTINUED

Section	Changes	Options
5	Acceptance Mode	Mode 0: Factory default. No acceptance modes active. Mode 1 *: If fraud is detected the validator enters an out-of-service time-out, the stacker plate extends into the bill magazine and the bezel LEDs flash. If any sensors are blocked, the time-out persists until the blockage is cleared. Mode 2 *: All the features of Mode 1, plus the stacker plate extends into the bill magazine when idle. Mode 3 *: All the features of Mode 2, but more aggressive. It may increase jams and service calls. Mode 3 is recommended for temporary use only. *Requires power

Insert the configuration coupon and verify the settings were accepted by counting the bezel flashes

Flashes	Meaning
10	Configuration coupon accepted and unit successfully programmed.
1 - 5	Coupon rejected. Number of flashes corresponds to the coupon section that was improperly filled out. Try again.
7	Coupon not read. Confirm the coupon is correct and try again.

LED 7 WIRING GUIDE

LED 7 / LED5 OPERATING AND PROGRAMMING INSTRUCTIONS

Push **MODE** to change from item to item. Push **SET** to set desired value or choose option for that item. Pushing **SET** repeatedly causes numbers to increase. Holding **SET** causes numbers to decrease. The symbol $\square$ represents a programmable digit. Default values are shown in [].

ITEM	DISPLAY/OPTIONS	REPRESENTS
1	COIN VALU [\$.25]	The monetary value assigned to a single coin pulse. Adj. from \$0.05 to \$5.00
2	C: $\square\square$ [30]	Time per coin/pulse. Adj. from 0:01 to 9:59.
3	S $\square\square\square$ [008]	Number of coins/pulses to start . Adj. from 1 to 200.
4	AUX VALU CN. $\square\square$ [4]	Auxiliary coin/pulse input pulse multiplier. Adj from 1 to 80.
5	B $\square\square\square$ [9]	Coins/Pulses to bonus. Bonus time is given when this coin/pulse is received.
6A	BONUS TIME $\square\square\square##$	Amount of time added for bonus coin/pulse.
6B	$\square\square\square\square$ [00:00]	Adj. from 00:00 to 99:59.
7	[SINGLE BONUS] MULTIPLE BONUS	Bonus time is only added one time when bonus coin pulse is received. Bonus time is added for every coin after bonus coin pulse is received.
8	[DEBIT MODE] CREDIT MODE BOTH	Money counts down as coins are inserted. Money counts up as coins are inserted. Money counts up as coins are inserted, plus a prompt of "ADD \$X MORE" if start price is not reached.
9	[DELAYED START] INSTANT START	Two second delay before timing starts after start price is reached. Timing starts as soon as start price is reached.
10	HL $\square\square$ [10]	Length of warning horn is seconds at one minute of time remaining.
11	[PULSED HORN] CONTINUOUS HORN	Horn output will pulse for amount of time set in HL. $\square\square$ Horn output will stay on continuously for entire last minute.
12	[RESTART OFF] RESTART ON	Restart feature turned off. Full price required after time expires. Timer may be restarted with one coin for 20 seconds after time expires.
13	[STD] USER MIX	Standard greeting message is displayed. User programmed custom greeting message is displayed. Standard message then custom message is displayed.
14	M $\square\square\square$ [5:00]	Length of washdown cycle using remote control. Adj. from 0:00 to 9:59.
15	$\square\square\square\square$ [1 2 3 4]	Adjustable remote access code.
16	CC PULSE VALUE \$ $\square\square\square$ [\$.25]	Monetary value assigned to credit card pulse received on pin #8 during count up.
17	[ENG] SPH E & S	Standard message and prompt is displayed in English. Standard message and prompt is displayed in Spanish. Standard message and prompt is displayed in English then displayed in Spanish.
18	EXIT	Timer returns to standby.

LED 7 WIRING GUIDE

Inventory

Timer keeps a running count of coins deposited, auxiliary pulses and manual cycles.

To show inventory press **SET**. Timer will display COINS XXXX (Number of coin pulses since last cleared), AUX XXXX (Number of pulses on auxiliary input) then MANUAL XXXX (Number of washdown cycles used since last cleared).

To clear inventory: Press **SET** to display inventory. Press and hold **MODE** until display reads "CLR?". Release **MODE**. Press and hold **MODE** again until timer reads "DONE".

Bonus Time Settings

Amount of time set in bonus time is added to time remaining on timer when bonus coin/pulse is received.

Bonus is disabled by setting bonus time to 00:00.

If "SINGLE BONUS" is selected, bonus time is only added once, when bonus coin/pulse is received. Any coins deposited after that bonus coin will receive the regular time per coin.

If "MULTIPLE BONUS" is selected, every coin deposited after bonus coin/pulse is reached will receive amount of time set in "BONUS TIME".

Debit/Credit Mode:

Debit Mode: As coins are deposited display shows "\$1.75 MORE, \$1.50 MORE, \$1.25 MORE" etc. until start price is reached. Once start price is reached display switches to time accumulating until no more coins have been deposited.

Credit Mode: As coins are deposited display shows money accumulating (\$.25, \$.50, \$.75 etc.). If timer is also set to Delayed Start Mode timer will continue to show money accumulating until no more coins have been deposited. If timer is set to Instant Start mode, as soon as start price is reached, timer will change to time counting down.

Both Mode: As coins are deposited display shows money accumulating (\$.25, \$.50, \$.75 etc.). If start price is not reached, after 5 seconds timer will alternate between "ADD \$X.XX MORE" and amount of money already deposited.

Credit Card Input:

Count up mode: No pre-set amount is charged to card. Timer will count up and run until terminated by credit card system.

For count up: Close pin #9 (input) to 24 VAC common for more than 400ms. Timer will continue to count up until closure is released for more than 400ms.

To have timer display amount charged to card at end of cycle: Close input as above. Open input for less than 400ms and re-close at intervals determined by pulse value set in "CC PULSE VALUE" (For example: if time per coin is set at 30 sec and "CC Pulse Value" is set at \$.25, open and close input every 30 seconds. If time per coin is set at 30 sec and "CC Pulse Value" is set at \$.05, open and close input every 6 seconds.)

Pre-pay mode: A pre-determined amount is charged to credit card each time card is swiped and credit card system sends pulses to input.

LED 7 WIRING GUIDE

Pulses between 16ms and 200ms will register on timer like coin pulses.

A pulse between 200ms and 400ms will cause timer to display "VERIFYING CARD". Should a second pulse of 200ms to 400ms be received on input timer will display "TRY DIFFERENT CARD". Minimum time between pulses is 16ms.

Note: Not all credit card systems can utilize all modes of operation. Contact your credit card system manufacturer for more information on what your system can do.

Messages

Standard greeting message (English): "PLEASE DEPOSIT \$2.00 TO START".

Standard greeting message (Spanish): "POR FAVOR DEPOSITO \$2.00 PARA EMPEZAR"

Standard exit message (English): "THANK YOU"

Standard exit message (Spanish): "GRACIAS"

Custom Message Programming:

A custom message can be programmed up to 64 characters (a space counts as a character).

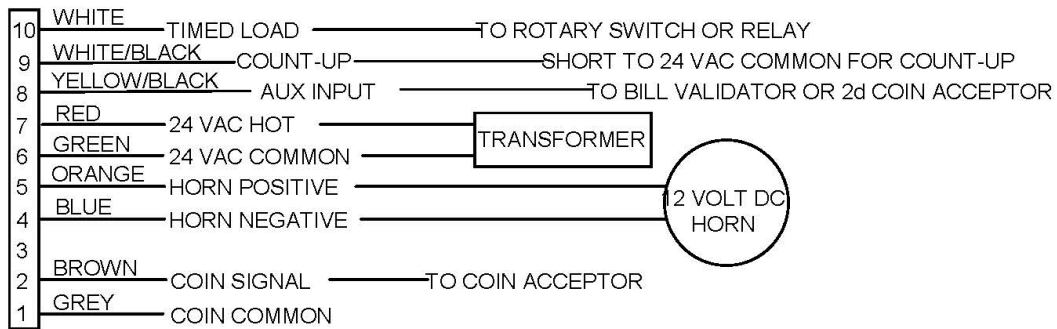
To program a custom message: Push **MODE** until STD appears on display. Push **SET** until USER appears on display. Push and hold **MODE** until "/" appears on right side of display. Push **SET** until first letter of your custom message appears on right side of display. Push **MODE**. The first letter of your message will move over one position to the left and an "A" will appear on the far right. Push **SET** until the second letter of your message appears on the right. Continue in this fashion until your message is complete. (Push **MODE** to advance to the next space in your message, push **SET** to display the letter or character you need. The character you are programming will always be the far right digit.) At the end of your message you MUST put a "/" to indicate the end of the message. Once your message is complete, push and hold **MODE** until USER appears on the display. Push **MODE** until EXIT appears. Message programming is now complete.

Count Up Message:

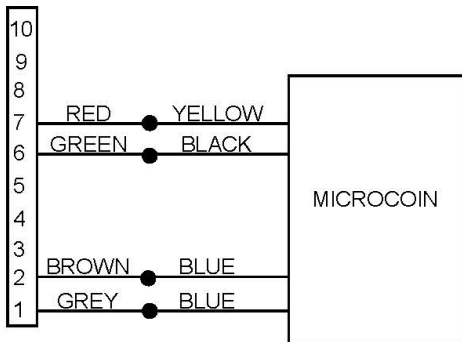
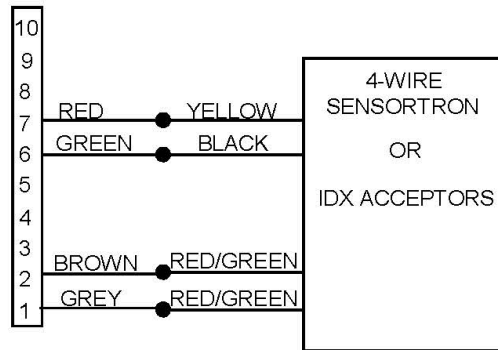
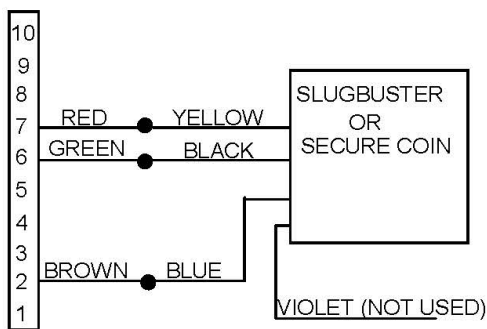
During count up mode an operator programmable message of up to 31 characters can be displayed every five seconds. To program message push and hold **MODE** when timer is displaying "CC PULSE VALUE" until "/" appears on display, then proceed as above, use **SET** to set letter or character required then press **MODE** to advance to next space. When message is complete, hold **MODE** until timer shows "DONE".

LED 7 WIRING GUIDE

LED7 WIRING



COIN ACCEPTOR WIRING



DIXMOR ENTERPRISES
 5755 S. GALLUP ST
 LITTLETON, CO 80122
 303-794-1387 FAX 303-794-0597

CRYPTO PAY GUIDE

CRYPTOPAY QUICK START GUIDE

CryptoPay Pre-Installation Check List:

Please confirm the following before installing your CryptoPay Credit Card System:

- ☐ Do you have a working wired internet connection at the wash location where you are installing CryptoPay? **Note:** to activate and configure your CryptoPay equipment you must have a working internet connection at the car wash site.
- ☐ Do you have an activated merchant account with WorldPay? If you haven't setup your WorldPay merchant account call: Che Powell at (678)-587-1450. **Note:** Merchant account activation may take up to 2 weeks. **Note:** to program and configure your CryptoPay equipment you must have an activated merchant account with WorldPay.
- ☐ Have you received your MPM number and password from CryptoPay?
Note: this information will be emailed to you from CryptoPay. **Note:** to program and configure your CryptoPay equipment you must have your MPM number and password.
- ☐ Have you written down the CPY number that is located on the CryptoPay coordinator?
Note: Write down the CPY number labeled on the coordinator and retain number. You will need this for the coordinator configuration discussed later in Step 3 – *Online Configuration*.
- ☐ Have you written down the serial number and location of where you will mount the CryptoPay swipers? **Note:** Write down and retain the 16 digit Swiper ID labeled on the back of the swiper with the intended mounting location (Example: 58d6561ed06471f7-Bay 1). You will need this information for the swiper configuration discussed later in Step 3 – *Online Configuration*.

After confirming the above items move on to the next section of this CryptoPay Quick Start Guide: *Step 1 - Install Coordinator*. **Note:** Your CryptoPay equipment must be activated and configured.

Note: For additional installation instructions watch the CryptoPay installation videos online at: <http://www.getcryptopay.com/videos.html>

CRYPTO PAY GUIDE

CRYPTOPAY QUICK START GUIDE

STEP 1 – Install Coordinator

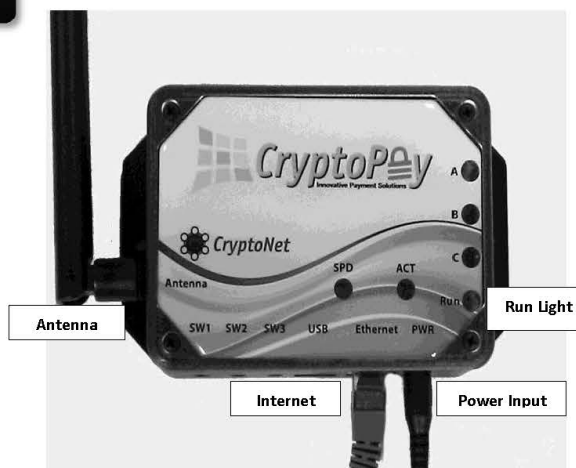
Coordinator installation - install the coordinator at the car wash, preferably in the pump room, near an electrical outlet and the internet connection.

Power Cord – plug in the supplied power cord to coordinator and into wall outlet.

Internet Cable – plug in the internet cable to the coordinator and into your router box.

Antenna – attach the supplied antenna to the coordinator.

Run Light – run light flashes indicating you have an internet connection to the coordinator.



Configure Coordinator – coordinator will need configured. **Note:** Write down the CPY number labeled on the coordinator and retain number. You will need this for the coordinator configuration discussed later in Step 3 – Online Configuration.

Note 1: The radio signals between the coordinator and the swipers can easily travel through non-metal walls, but cannot travel through metal plates or large metal objects like metal walls and roofs, pumps, control boxes, or water tanks.

Note 2: If you are using a Wi-Fi network on your site, be sure to separate the wireless router's antenna from the CryptoPay coordinator's antenna by at least 6 feet. This will prevent radio interference.

STEP 2 – Install Swiper

Swiper installation – mount swiper at Coin Box or Vacuum. Three holes are required – two for mounting screws and one for the power and signal wires to pass through. Swiper **must** be mounted in a vertical position with button at the bottom of the swiper (See Figure 1: Coin Box). Swiper mounting is on page number 6.

Swiper Power Wires – connect 24VAC to the swipers black and yellow wires. Black Wire: 24VAC Common, Yellow Wire: 24VAC Hot. Additional wiring detail is provided on page number 4 of this quick start guide.

Swiper Signal Wires – determine which signal wire to use and hook to your timer. Blue Wire: DC Signal Pulse, Red Wire: AC Signal Pulse. Additional wiring detail is provided on page number 4 of this quick start guide.

Swiper Light Bar – After connecting 24VAC, the light bar on the front of the swiper will light up. If the swiper's LED bar is blinking yellow, then the swiper is in "Out of service" mode. In this mode, the swiper must be configured before use.



Figure 1: Coin Box

Configure Swiper – swiper will be configured in Step 3 – Online Configuration. **Note:** Write down and retain the 16 digit Swiper ID labeled on the back of the swiper with mounting location (58d6561ed06471f7-Bay 1). You will need this information for the swiper configuration discussed later in Step 3 – Online Configuration. **Note 1:** Be sure that the swiper is mounted with sufficient space above and below the swiper so that a credit card can enter and exit the swiper without hitting any obstacle, such as a wall or box edge that protrudes from the front of a coin box. **Note 2:** Only one signal wire will be connected – red or blue.

CRYPTO PAY GUIDE

CRYPTOPAY QUICK START GUIDE

STEP 3 – Online Configuration

Coordinator and Swiper Configuration – the CryptoPay Coordinator and swiper(s) are programmed online. Follow the instructions below to program your equipment. Note: to configure your equipment your coordinator must be connected to the internet and your swiper(s) installed at the wash site.

Online Configuration – Go to www.mycryptopay.com/login and click on the “Create A New Account” link. Fill out the form by entering a user name, email address, and password then click the “Create Account” button when finished (see Figure 2).

Log In – Now that your account has been created, go ahead and click “Log In”. Enter your user name and password and click login button. You will see a message saying you haven’t added or been delegated to manage any sites yet. Click the “here” link to add your first site.

Adding/Naming the Site – Fill out the form, naming the site as you see fit, selecting your time zone and typing the “CPY” number in the “Site Code” field. The “CPY” number can be found labeled on your Coordinator unit. **Note: The “CPY” number must be entered exactly as printed on the label.** Now Click the Add Site button.

Setup – Once the site has been added you will be returned to the “My Sites” page. Your new site will display a message that it is not yet set up. Click the “Setup” button to proceed to the “Manage Site” page. **Note:** if you don’t see the “Setup” button then your coordinator is not connected to the internet.

In the “Manage Site” page you will see an alert message that your merchant account is not set. In order to set up your account information you will need your “MPM” number and password and this is emailed to you from CryptoPay. Once you have this information click the “Set merchant account information” link and fill out the form including choosing your processor. Now click the “Setup” button. **Note: The “MPM” number and password must be entered correctly – observe case and note special symbols and characters – failure to enter this information correctly will prevent your system from operating correctly. When configuring your CryptoPay system and entering this information we recommend you ‘copy’ and ‘paste’ this information into the online configuration fields. This will ensure the information is entered correctly.**

Configure Swipers – You are now at the Manage Site page (see Figure 3). The section labeled ‘Site Setup Progress’ displays your configuration progress. Your merchant account should now indicate ‘Set’, your Coordinator Status should indicate ‘Connected’ and Swipers/Devices Present should indicate ‘Yes’.

Your swipers are shipped in an out of service mode and must now be configured. Click the ‘Configure’ link in the CryptoPay Devices section. Name your swiper (Bay 1, Vacuum 1, Pet Wash, etc). Change the Profile from ‘Out of service’ to the profile option that matches your timer profile (see figure 3). You will now have additional fields to fill in. Configure your swiper by completing the ‘Basic Options’, ‘Card Options’, and ‘Button Options’ sections. Click the box next to ‘Confirm Changes’ and then click the ‘Apply Changes’ button. **Note:** Configure all your swipers.

Final Testing – Your coordinator and swipers are now configured. Swipe a credit card at the swiper and verify that the timer started and the purchase went through. The LED light bar will go blue for a validate swipe or red for an invalidate swipe. The timer will receive a signal from the swiper and activate the wash/vacuum according to the swiper and timer configurations. **Note:** Ensure that the timer configuration matches the swiper configuration. **Note:** View your recent purchases at: www.mycryptopay.com/login

CRYPTO PAY GUIDE

CRYPTOPAY QUICK START GUIDE

CryptoPay
Innovative Payment Solutions

Login

Signup

Create A New Account

To create a new account, please provide the following information:

User Name:

Email Address:

Choose Password:

Re-type Password:

Create Account

Already have an account?

[Log In](#)

Figure 2: Create a New Account

Manage Site - Washarama

Address:
Site Owner: DaveCryptopay
Time Zone: (GMT-07:00) Mountain Time (US & Canada)

[Edit Site](#)

Site Setup Progress

✔ Merchant Account:

Set

✔ Coordinator Status:

Connected

✔ Swipers/Devices Present:

Yes

⚠ Swipers/Devices Configured:

No

Currently all of your cryptopay devices are set to be "Out of Service".

Cryptopay Devices

Configuration 1: Out Of Service

▶ Configuration Details (click to expand)

Devices

Swiper

ID: cebc4f0a3bf1b384

[Configure](#)

Connected

Delegated Access

Figure 3: Manage Site

CRYPTO PAY GUIDE

CRYPTOPAY QUICK START GUIDE

Configure Device: cebc4f0a3bf1b384

Basic Options

Name:

Swiper

Profile

Count Down Coin

Purchase Type:

Wash

Rate:

60

sec/coin

Card Options

Min Charge:

1.00

Min Runtime: 4 minutes, 0 seconds

Max Charge:

15.00

Max Runtime: 60 minutes, 0 seconds

Accept American Express:

No

Button Options

Coins per Press:

1

Note: It will take a few minutes for these changes to take effect on-site.

Apply Changes

Cancel

Count Down Coin: This option is for all non- Dixmor timers (or older Dixmor timers built before 2005) that do not support advanced functionality. The reader will send pulses to the coin input pin just as a coin mechanism would.

Count Down Card: For Dixmor timers that support advanced functionality with a dedicated credit card input pin. In this mode the reader will send a predetermined minimum credit and the timer will timer down.

Count Up: Dixmor timers that support advanced functionality with a dedicated credit card input pin. Count-up mode allows the customer to run the wash as long as they want, and then stop the wash when they are finished. The swiper keeps track of how many coin pulses are sent to the timer, and charges the customer the correct amount of money for the time used.

Out of Service Mode: The card reader will remain powered on but will not accept card payments. Indicated by a flashing yellow light bar.

Figure 4: Configure Device

CRYPTO PAY GUIDE

CRYPTOPAY QUICK START GUIDE

Swiper Power Wire Chart:

Wire Color	Signal Name	Where to Connect
Black	24 AC Common	24VAC Common
Yellow	24 AC Hot	24VAC Hot
Blue	Signal - DC	Timer coin input or CC input*
Red	Signal – AC	Timer AC input

* If your timer does not have a CC input, connect the Signal line to the Coin pin on the timer.

Swiper Signal Wire Chart:

Timer model	Hookup	Notes
DC Input timers (Blue wire)		
Dixmor LED2 Dixmor LED3	Blue wire to COIN input (pin 2)	
Dixmor LED5 Dixmor LED6	Blue wire to CC input (pin 8) NOTE: Firmware must support CC input	Can also connect red wire to COIN input (pin 2)
Dixmor LED7 Dixmor LED9 Dixmor DX2002	Blue wire to CC input (pin 9) NOTE: Firmware must support CC input	Can also connect blue wire to COIN input (pin 2)
IDX AT411	Blue wire to COIN input (pin 7)	
IDX LTT800/ LTT802/ BT912	Blue wire to COIN input (P1- pin 3)	
Ginsan GS-400	Red wire to COIN input (red/green) Black wire to 24VAC common (Purple wire) Yellow wire to 24VAC hot (Red wire)	
Ginsan 24VAC powered	Blue wire to COIN input Black wire to 24VAC hot Yellow wire to 24VAC common	Yes, hot and common seem to be reversed from other hookups.
Ginsan 110VAC powered	Blue wire to COIN input Black wire to 24VAC hot Yellow wire to 24VAC common	Requires an external transformer.
D&S DS200/201/ 203/204/224	Blue wire to COIN input (pin 2) Yellow wire to 24VAC hot Black wire to 24VAC common	
AC input timers (Red wire)		
Coleman 1034S	Red wire to XCOIN input Yellow wire to 24VAC hot Black wire to 24VAC common	
Dixmor LED5	Red wire to COIN input (pin 2)	For older code versions that don't support a credit card input, use this connection.

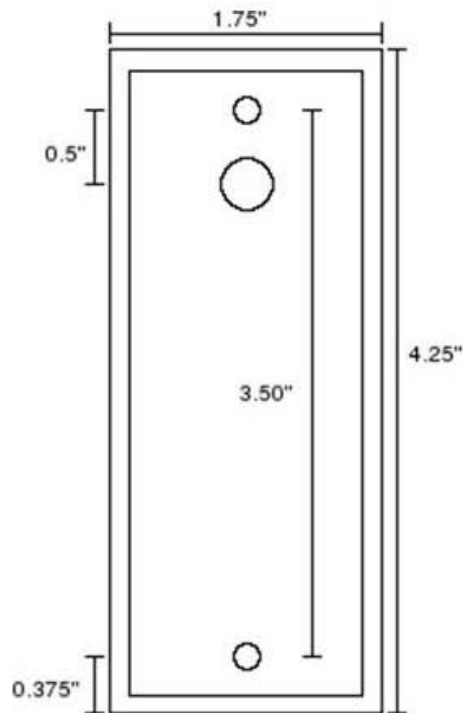
Note: Only one signal wire will be connected to your timer – red or blue.

CRYPTO PAY GUIDE

CRYPTOPAY QUICK START GUIDE

CryptoPay Swiper Mounting:

Swiper **must** be mounted in a vertical position with button at the bottom of the swiper (See Figure 1: Coin Box). Improper mounting of the swiper may void the 'CryptoPay Manufacturer's Limited Warranty'.



Drill Small Hole: 0.20" (13/64" Bit)

Drill Large Hole: 0.375 (3/8" Bit)

Note: due to different printer properties this image may not print to scale

MA850 SERIES

Model MA850 SERIES HAWK XEPTOR® 2 YEAR WARRANTY



IDX's MA850 SERIES of Hawk Xeptors will accept a mixture of 6 different coins and/or tokens types making it a international Xeptor. Standard features include higher security anti-stringing credit sense optics added, electronic size detection within 0.015" and patented electronic metal sensors to better distinguishes between similar metals. The complete line of IDX multi-coin Xeptors® are field programable for new coin types as well as changing the number of coin pulses per coin. Other high security features include IDX's own processor circuit, a shielded relay with the universal relay wiring power wires Yellow & Black and relay wires 2 Red with Green tracer output signals for greater reliability and easyfield connections. This "smart" Xeptor® continues update its memory on each coin as the Xeptor® ages.

The newest standard feature in this series is the 2 YEAR WARRANTY that includes advanced replacement in the first year.

MA850 XEPTOR® SERIES FEATURES:

- Standard Preprogramed with U.S. Quarter and U.S. Dollar coins can be field changed.
- Standard 4 wire hookup - Power wires -Yellow 24VAC Hot / Black 24VAC Common - Coin wires (2) Red Green.
- Power sources 24 VAC/VDC standard optional voltages - 12VDC
- Distinguishes and accepts any of up to (6) six MA850 different coins or tokens of different sizes and/or electronic signatures.
- Standard 2" faceplate footprint 2" wide x 7.75" high x 3.8" deep.
- Snap in Stainless Steel faceplate MA19 standard.
- Optional old style MA20 - 2" faceplate - Model MA850CR0C34C
- Coin Diameter range examples: 0.832"- 1.126" Standard and other ranges available.
- Coin Thickness range settings: 0.059 to 0.085" Standard and other ranges available.
- Slide on water resistant access covers.
- Built-in "Credit Test" push button.
- New coin types can be learned or programmed in the field.
- Unwanted shadow coin feature eliminates false acceptance of undesired coins.
- Multi-color indicator LED for operational status.
- Patent Coverage: U.S.#5,046,841 U.S.#6,021,882 U.K.#2,227,347 U.K.#8,929,131 U.K.#9,905,044 U.K.#2,335,207 Aus.#619,639 Aus.#1,952,499 Aus.#4,788,290 Can.#1,313,806 Jap. #9471,1990

Mailing and Shipping: 1812 Lorene, El Dorado, AR 71730 USA

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TIMER TROUBLESHOOTING

DIGITAL DISPLAY TIMER TROUBLESHOOTING

MOST COMMON PROBLEMS

WHEN TROUBLESHOOTING NEVER ASSUME ANYTHING, ALWAYS CHECK IT OUT TOTALLY, OR YOU WILL PROBABLY MISS SOMETHING. A LOT OF PROBLEMS ARE THE MOST OBVIOUS THINGS WE OVERLOOK.

1--- DISPLAY NOT LIT UP-- FIRST VERIFY WITH A VOLTMETER THAT 22 TO 28 VOLTS IS PRESENT TO THE TIMER. IF CONNECTED WITH A PUSH IN TYPE HARNESS, REMOVE AND REINSERT HARNESS AS IT MAY BE CORRODED AND NOT MAKING GOOD CONNECTION. CLEAN CONNECTORS IF NEEDED. DISCONNECT POWER FOR 30 SECONDS AND REAPPLY, SOMETIMES A POWER SURGE CAN LOCK UP THE ELECTRONICS AND THIS WILL RESET IT.

IF YOU HAVE AN OLDER TIMER WITH AN INTERNAL BACK UP BATTERY IN IT THE BATTERY COULD BE WEAK OR DEAD. IF YOU ARE TRYING TO USE A TIMER THAT HAS BEEN IN STORAGE FOR SOME TIME FOLLOW THESE HINTS. SOME TIMERS HAVE SELF CHARGING BATTERIES AND IF YOU LEAVE IT PLUGGED IN FOR 30 MINUTES, IT MAY START WORKING ONCE YOU DISCONNECT AND REAPPLY POWER. YOU WILL NEED TO REPROGRAM IF THIS HAPPENS.

2 --- TIME SHOWS ON DISPLAY AND COUNTING DOWN BUT NOTHING TURNS ON--TAKE A SMALL PIECE OF WIRE STRIPPED ON BOTH ENDS AND TOUCH BETWEEN 24 VOLT HOT AND TIMER OUTPUT. TIMER IS NOW OUT OF SYSTEM AND IF NOTHING STILL TURNS ON YOU HAVE A PROBLEM ELSEWHERE, POSSIBLY ROTARY SWITCH OR TOUCH-PAD.

3--- LOW PRESSURE FUNCTIONS WORK BUT HIGH PRESSURE DOES NOT SPRAY. --- FIRST, VERIFY THAT SPRAY NOZZLE IS NOT PLUGGED. SECOND, VERIFY THAT DRIVE BELT FOR PUMP IS NOT BROKEN. NEXT, CHECK BREAKER IN HIGH VOLTAGE DISTRIBUTION PANEL, TURN IT OFF AND BACK ON AS ONE LEG ONLY MIGHT BE TRIPPED. ---**WARNING---** IF YOU ARE NOT EXPERIENCED WITH HIGH VOLTAGE STOP HERE. OBTAIN QUALIFIED HELP. NEXT VERIFY THAT 24 VOLTS TO MOTOR STARTER IS ACTIVATING MOTOR STARTER. VERIFY THAT MOTOR STARTER HAS HIGH VOLTAGE COMING TO IT AND PASSING ALL LEGS THROUGH IT. IF MOTOR STILL DOES NOT RUN YOU PROBABLY HAVE A BAD MOTOR OR POSSIBLY A BAD CAPACITOR IF YOU HAVE CAPACITOR TYPE MOTORS. DO NOT DISCOUNT THE POSSIBILITY THAT THERE MAY BE A FUSE SOMEWHERE IN THE SYSTEM THAT IS BLOWN.

4--- TIMER SHOWS TIME EXPIRED BUT SYSTEM CONTINUES TO RUN. ---DISCONNECT TIMER OUTPUT WIRE; IF SYSTEM SHUTS OFF, TIMER IS PROBABLY DEFECTIVE. IF SYSTEM STILL RUNS YOU PROBABLY HAVE A BAD RELAY OR MOTOR STARTER CONTACTS STUCK IN THE CLOSED POSITION. EVEN THOUGH IT IS RARE, OCCASIONALLY A POWER SURGE CAN LOCK UP A TIMER. REMOVE POWER FOR A FEW MINUTES TO ALLOW RESET.

TIMER TROUBLESHOOTING

5--- INSERTED COINS ARE ACCEPTED BUT DO NOT ADD UP TIME. --- MAKE SURE TIMER IS PROGRAMMED CORRECTLY. IF NEW INSTALLATION YOU PROBABLY HAVE THE POLARITY REVERSED. DOUBLE CHECK THE INSTRUCTIONS AND MAKE SURE YOU ARE WIRED ACCORDING TO THE TIMER INSTRUCTIONS, NOT THE COIN ACCEPTOR INSTRUCTIONS. IF UNIT HAS BEEN WORKING AND NOW WON'T, TAKE A SHORT PIECE OF SMALL WIRE AND MOMENTARILY TOUCH BETWEEN COIN COMMON AND COIN SIGNAL, EACH TOUCH SHOULD ADD ONE PULSE. SOME TIMERS USE 24 V HOT FOR COIN SIGNAL AND SOME USE 24V COMMON. IF YOU DONT KNOW WHICH YOU USE, TOUCH BETWEEN 24V HOT AND COIN SIGNAL. IF THIS DOESNT WORK TOUCH BETWEEN 24V COMMON AND COIN SIGNAL. IF YOU STILL GET NO PULSE YOU PROBABLY HAVE A DEFECTIVE TIMER AND IT SHOULD BE RETURNED FOR SERVICE.

6 --- HORN DOES NOT SOUND OR CONTINUOUS HORN--- VERIFY PROPER POLARITY ACCORDING TO TIMER INSTRUCTIONS. REPLACE WITH KNOWN WORKING HORN. SOMETIMES WE FIND A HORN WHICH IS LABELED FOR THE WRONG VOLTAGE. DOUBLE CHECK PROGRAMMING TO VERIFY THAT HORN HAS NOT BEEN TURNED OFF. TIMER MAY HAVE SHORTED HORN DRIVER AND NEEDS TO BE RETURNED FOR SERVICE.

7--- DISPLAY READS "CLOSED" OR "FAIL" OR "ERROR" OR "COIN" OR "AUX" (DIXMOR TIMERS ONLY)

"CLOSED" OR "COIN" INDICATES A CONTINUOUS COIN PULSE COMING TO TIMER FROM COIN ACCEPTER OR A SHORTED COIN SIGNAL WIRE. DISCONNECT COIN SIGNAL WIRE AT TIMER TO VERIFY THIS PROBLEM.

"ERROR" INDICATES PROGRAMMING HAS BEEN LOST. THIS CAN HAPPEN DUE TO A SEVERE POWER SPIKE. OR POSSIBLY A BAD BATTERY IF TIMER HAS ONE. REPROGRAM TIMER

"FAIL" CAN MEAN CONTINUOUS COIN SIGNAL OR PROGRAM LOST DEPENDING ON TIMER. FOLLOW ABOVE HINTS TO DETERMINE PROBLEM.

"AUX" MEANS CONTINUOUS SIGNAL TO AUXILLIARY INPUT.

8--- NUMBERS ON DISPLAY MISSING SEGMENTS ---BAD DISPLAY OR DRIVER INTERNALLY. NO USER SERVICEABLE SOLUTION. RETURN TIMER FOR SERVICE.

9--- DISPLAY READS PROPER AMOUNT OF TIME BUT DOES NOT COUNT DOWN OR START EQUIPMENT. ---DOUBLE CHECK PROGRAMMING ---THIS SITUATION USUALLY OCCURS AFTER A PRICE CHANGE AND A SMALL ERROR WAS MADE IN YOUR CALCULATION OF TIME PER COIN AND COINS TO START.

10--- EVEN THOUGH THIS IS WRITTEN FOR DIGITAL DISPLAY TIMERS, MOST OF THE PROBLEMS ASSOCIATED WITH CAR WASH TIMERS AND COIN ACCEPTORS ARE EXACTLY THE SAME AS WHAT IS OUTLINED HEREIN. A GOOD METHOD OF TROUBLESHOOTING IS TO INTERCHANGE A KNOWN WORKING COMPONENT BETWEEN BAYS AND SEE IF THE PROBLEM GOES WITH THE PART OR STAYS IN THE SAME BAY. ALL OPERATORS SHOULD INCLUDE A SPARE COIN ACCEPTOR AND TIMER IN YOUR PARTS INVENTORY. AS YOU KNOW MOST PROBLEMS ARISE ON FRIDAY OR SATURDAY WHEN YOU CAN'T GET PARTS OR ADVICE.

IF YOU ARE WORKING WITH A DIXMOR TIMER AND CAN STILL NOT FIGURE IT OUT CALL NICK, OR JOHN, OR MORRIS AT DIXMOR ---PHONE 303-794-1387 or 303-794-0597. WE WILL DO OUR BEST TO HELP YOU SOLVE YOUR PROBLEM.

METER BOX WARRANTY

National Pride Equipment Warranty

National Pride Equipment warrants to the original consumer / purchaser against defects in material and/or workmanship from the date of original manufacture as follows:

Limited Warranty, covering materials and workmanship for 1 year from the date of installation, subject to user's to compliance with manufacturers operating and maintenance instructions.

National Pride Equipment shall not be held liable for any special, incidental or consequential damages, and will at its option, repair or replace any defective components.

Any parts used for replacement are warranted for the remainder of the original warranty period. THIS WARRANTY DOES NOT COVER DEFECTS CAUSED BY ACCIDENT, FIRE, FLOOD, ACTS OF GOD, MISUSE, MISAPPLICATION OR NEGLIGENCE.

Shipping expenses to National Pride Equipment at 905 Hickory Lane, Mansfield, Ohio 44905 are the responsibility of the consumer. National Pride Equipment will ship the repaired or new component at the consumer's expense and will not be responsible for any labor charges or other costs resulting from the removal or installation of the repaired or replaced part.



