

Models MA800/MA803/MA812/X10/X10CM

Coin Learn & Field Test Procedure for Xeptors®



COIN LEARN PROCEDURE

- Slide the front cover up and identify the three controls to be used in this procedure:
 - Black or Red push button near center bottom. (used to input the number of credit pulses)
 - 16 position rotary switch to the right of the push-button. (#0 is normal RUN position, #1 - #6 are for learning each of 6 possible coin types that can be accepted) **MA812** (#0 is normal RUN position, #1 - #9 and #A, #B, & #C are for learning each of 12 possible coin types that can be accepted)
 - LED indicator half way up on the right side. (Green in RUN mode, Red in LEARN mode)
- Turn the rotary switch to one of the LEARN positions #1 - #6 or #1 - #C (for example, pick #3 for learning the 3rd coin type) and observe the LED turns red to indicate it is now ready to learn.
- Push the black or red button once for each credit pulse you wish to have issued for this coin. For example, a \$1 coin would require 4 credit pulses if you are also accepting \$0.25 coins, one credit pulse per quarter.
- Slide the cover back on the unit to make sure outside light does not interfere with the sensors.**
- Show the unit **6 different samples** of the coin by depositing them into the acceptor as usual. It is best to use 6 different coins since there are typically slight variations from coin-to-coin.
- After the 6th sample coin is deposited, the LED will flash red-green a few times to indicate the LEARN procedure is complete and the coin parameters are stored in memory.
- Slide the front cover open again and turn the rotary switch back to position #0 and observe the LED turning green. Check that you have not accidentally turned it too far to position #15 which is a field test function position, in which it will not accept coins.
- Slide the front cover back down and you should now be able to accept the new coin.

UNWANTED COIN FEATURE

- Use the same coin learn procedures as above.
- THE COIN YOU DO NOT WANT TO ACCEPT MUST BE LEARNED IN COIN POSITION #1. Turn to position #1 and press the test button 13 times, **drop the same sample coin through that you do not want to accept 6 times**. NEXT, LEARN THE COIN YOU WANT TO ACCEPT IN COIN POSITION #2. Turn to position #2 and press the test button for the number of times for the value of your coin to be accepted, **drop the same sample coin through that you do want to accept 6 times**. Now turn back to the #0 operating position.

COIN DE-LEARN PROCEDURE

- Slide the front cover up and turn the rotary switch to the coin # position you wish to DE-LEARN.
- Push the black or red button once to initiate the LEARN sequence.
- Turn the rotary switch back to position #0 without depositing any coins to signal the unit that you wish it to erase the parameters for this coin. The LED will flash red-green to indicate completion.
- Slide the front cover back down.

FIELD TESTS & DIAGNOSTICS FOR MA800 | MA803 | X10 | X10CM (NOT MA812)

Normal operation in switch position #0 is shown by a green LED. If the LED is flashing yellow or alternately red-green, it indicates a malfunction has been detected. Some malfunctions can be corrected in the field. See below.

GATE RELAY TEST (rotary switch #0)

Press the black or red button to activate the gate relay. If not normal, it may be physically obstructed or its wire unplugged.

INDUCTIVE METAL SENSOR TESTS (rotary switch #E & #F)

Turn the rotary switch to positions #E and #F to test the inductive sensor. Normal LED color is green. A red color indicates either there is metal in front of the inductive sensors or the circuit is malfunctioning (usually the rear flat cable unplugged).

DIAMETER OPTICS SENSOR TESTS (rotary switch #B, #C, & #D)

Turn the rotary switch to positions #B, #C, and #D to test the diameter thru-beam optical sensors. Normal LED color is green. A red or orange color indicates either there is an object or dirt blocking one of these three sensors and cleaning of the coin chute is required, or the circuit is malfunctioning.

X-MARK® CODE OPTICS SENSOR CALIBRATION (rotary switch #9 & #A) (FOR X10 XEPTORS ONLY)

Fold a piece of white paper twice (to 4 thickness) and insert it into the center of the coin chute. Turn the rotary switch to position #9 (rear side optics) and press the black or red button. The unit will use information gathered to calibrate the sensitivity of its reflective sensors for reading the X-Mark optical code on tokens. The LED should be an orange color after calibration. Repeat for switch position #A (front side optics).

CREDIT SENSOR TEST (rotary switch #8)

Turn the rotary switch to position #8 to test the Credit Sensors (v2.0 chip and later). If not installed, the LED will blink yellow; if installed and in good order, it will be green. If installed and dirty or blocked, the color will be an orange to red color.

MEMORY TEST (rotary switch #7)

Turn the rotary switch to position #7 to test the validity of memory. Normal LED color is green. A red color indicates that memory is corrupted. It may be possible to correct this by re-learning the coins. If not, the memory chip is bad.

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Xeptor® Connections to Displays & Timers - MA800 / MA812 / X10

(For MA803 and X10DM Wiring Information, Check With Factory)

(Rev. 01/29/2004)

LTT800 / LTT802 Connections		D & S Display Timer Connections		IDX Flat Pack 24VAC Connections		Ginsan 24VAC Connections	
MA800 or X10	LTT800 / LTT802	MA800 or X10	202 / 203 / 204	MA800 or X10	AT411 / AT422 / AT412	MA800 or X10	GS-7 / 8 / 75 GS-87 / 255
Yellow	Yellow #1	Yellow	Blk / Yel #7	Yellow	#2	Yellow	#3
Black	Black #2	Black	White #6	Black	#3	Black	#1
Red / Green	Red / Green #3	Red / Green	Blue #2	Red / Green	#7	Red / Green	#4
Red / Green	Black #2	Red / Green	White #6	Red / Green	#8 or #3	Red / Green	#1
						Token Input	#5 (GS87)
BT800/BT802/BT902/ BT912/BT922 Connections		Ginsan Display Connections		IDX Flat Pack 115VAC Connections		Ginsan GS-9 115VAC Connections	
MA800 or X10	BT800 - BT922	MA800 or X10	GS31 / GS31B	MA800 or X10	AT413	MA800 or X10	GS-9
Yellow	#1	Yellow	Red	115VAC Hot	#1	Yellow	#7
Black	#2	Black	Purple	115VAC Com	#3	Black	#5
Red / Green	#3	Red / Green	Red / Green	Yellow	#2	Red / Green	#4
Red / Green	#2	Red / Green	Purple	Black	#8 or #3	Red / Green	#5
		(Call for Timer Connections)		Red / Green	#7		
				Red / Green	#8 or #3		
Monorail Display Connections		Dilling & Harris Connections		IDX Plug-In Timers 24VAC Connections		Ginsan GS-11 115VAC Connections	
MA800 or X10	MDC	MA800 or X10		MA800 or X10	AT401 / AT402 / AT403	MA800 or X10	GS-11
Yellow	Blk - 24V	Yellow		Yellow	#2	Yellow	#1
Black	Wh - COM	Black		Black	#1	Black	#4
Red / Green	Wh / Grn	Red / Green		Red / Green	#3	Red / Green	#3
Red / Green	Wh - COM	Red / Green		Red / Green	#1	Red / Green	#4
Dixmor LED 3 Connections		Specialty Mfg. Connections		Monorail Plug-In Timer 24VAC Connections		Keltner D9 Connections	
MA800 or X10	LED 3	MA800 or X10	Time Machine	MA800 or X10	G2	MA800 or X10	D9
Yellow	#7 Red	Yellow	Blk - 24V	Yellow	#2	Yellow	#1
Black	#6 Green	Black	Wh - COM	Black	#1	Black	#2
Red / Green	#2 Brown	Red / Green	Blk - 24V	Red / Green	#3	Red / Green	#4
Red / Green	#1 Gray / #6 Green	Red / Green	Yel - Coin	Red / Green	#1	Red / Green	#5 or #2
Dixmor DX2000 Connections		SecureCoin Timer 24VAC Connections		Monorail Timer 24VAC Connections		Keltner LC-1 Connections	
MA800 or X10	DX2000	MA800 or X10	#ET (same as IDX AT411E)	MA800 or X10	MDC	MA800 or X10	LC-1
Yellow	#9	Yellow	#2	Yellow	Blk - 24V	Yellow	#2
Black	#10	Black	#3	Black	Wh - COM	Black	#1
Red / Green	#10	Red / Green	#7	Red / Green	Wh / Grn	Red / Green	#4
Red / Green	#5	Red / Green	#8 or #3	Red / Green	Wh - COM	Red / Green	#3 or #1
Dixmor DX300 Connections		D & S Non-Display Connections		ParaPlate T24120 Connections		Parker Connections	
MA800 or X10	DX300	MA800 or X10	Non-Display	MA800 or X10	T24120	MA800 or X10	
Yellow	#7	Yellow	24V Hot (L1)	Yellow	#2	Yellow	#3
Black	#6	Black	24 COM (L2)	Black	#3	Black	#1
Red / Green	#6	Red / Green	Coin	Red / Green	#7	Red / Green	#4
Red / Green	#1	Red / Green	24V COM (L2)	Red / Green	#8 or #3	Red / Green	#1
Time Master - TM5 / TM5J LED5 / CT2000 Connections		Magic Wand & Jim Coleman TM5 / TM5J / CT2000 Con.		ParaPlate T24200 Connections		Mark VII AccuTime Connections	
MA800 or X10	Time Master	MA800 or X10	Time Master	MA800 or X10	T24200	MA800 or X10	AccuTime
Yellow	#9 Orange	Yellow	#9 Orange	Yellow	#1	Yellow	#2
Black	#10 Green	Black	#10 Green	Black	#2	Black	#1
Red / Green	#10 Green	Red / Green	#10 Green	Red / Green	#5	Red / Green	#4
Red / Green	#2 Orange/Black	Red / Green	#2 Orange/Black	Red / Green	#6 or #2	Red / Green	#1