

# 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 an 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 distinguish 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 w/Green tracer output signals for greater reliability and easy field connections. This "smart" Xeptor continues to 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 Pre-programmed 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 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 - Modle 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

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# Coin Learn Procedure for Models MA850 / MA85CC / X12 for different version consult factory



- Slide the front cover up and identify the three controls to be used in this procedure:
  - Black push-button near center bottom. (used to input the number of credit pulses)
  - Gray 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) **MA85CC 12 COIN** (#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 Gray rotary switch to one of the LEARN positions #1-#6 (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 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, the LED will be Green however 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 Black 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 Black 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 "0" the 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 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.

## ***FACTORY SETTINGS***

- Position # 6 has a U.S. quarter learned with 1 pulse
- Position # 5 has a U.S. dollar coin learned with 4 pulses

## ***TROUBLE SHOOTING***

- If LED is flashing RED to GREEN in the "0" position, turn off power for 30 to 45 seconds then turn back on. This should reboot the acceptor. Check to make sure that the 2 halves of the acceptor are closed together, open the acceptor and let the spring slam it shut. Also, check to see if the White ribbon cable located on the back side of the acceptor is plugged in just under the 2 Red wires. If this does not correct your problem call your distributor.
- If coin returns and No coin pulse to the timer check to see if the LED is blank, Green, Red, or flashing. If blank check for voltage between the "Yellow" 24vac and "Black" common wires. If power is present call your distributor for to get acceptor repaired. If Red or Green check to see if Gray switch is in the "O" position, if not in "0" it will not accept coins.

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# WIRING INFORMATION – MA850-MA85CC-X12 FOR MA853 AND X12DM CHECK WITH FACTORY

<u>XEPTOR® CONNECTIONS TO DISPLAYS &amp; TIMERS</u>	<u>XEPTOR® CONNECTIONS TO DISPLAYS &amp; TIMERS</u>	<u>XEPTOR® CONNECTIONS TO DISPLAYS &amp; TIMERS</u>	<u>XEPTOR® CONNECTIONS TO DISPLAYS &amp; TIMERS</u>
<p style="text-align: center;"><b>LTT800 / LTT802 CONNECTIONS</b></p> <p>MA800 or X10      LTT802</p> <p>YELLOW      PIN #1 BLACK      PIN #2 RED/GREEN      PIN #3 RED/GREEN      PIN #2</p> <p style="text-align: center;"><b>BT800/BT802/BT902/BT912/ BT922-CONNECTIONS</b></p> <p>MA800 or X10      BT800-BT922</p> <p>YELLOW      PIN #1 BLACK      PIN #2 RED/GREEN      PIN #3 RED/GREEN      PIN #2</p> <p style="text-align: center;"><b>MONORAIL DISPLAY CONNECTIONS</b></p> <p>MA800 or X10      MDC</p> <p>YELLOW      BLK-24V BLACK      WH-COM RED/GREEN      WH/GRN RED/GREEN      WH-COM</p> <p style="text-align: center;"><b>DIXMOR LED 3 CONNECTIONS</b></p> <p>MA800 or X10      LED 3</p> <p>YELLOW      #7 RED BLACK      #6 GREEN RED/GREEN      #2 BROWN RED/GREEN      #1 GRAY/#6 GREEN</p> <p style="text-align: center;"><b>DIXMOR DX2000 CONNECTIONS</b></p> <p>MA800 or X10      DX2000</p> <p>YELLOW      #9 BLACK      #10 RED/GREEN      #10 RED/GREEN      #5</p> <p style="text-align: center;"><b>DIXMOR DX300 CONNECTIONS</b></p> <p>MA800 or X10      DX300</p> <p>YELLOW      #7 BLACK      #6 RED/GREEN      #6 RED/GREEN      #1</p> <p style="text-align: center;"><b>TIME MASTER TM5/TM5J/LED5/CT2000 CONNECTIONS</b></p> <p>MA800 or X10      TIME MASTER</p> <p>YELLOW      #9 ORANGE BLACK      #10 GREEN RED/GREEN      #10 GREEN RED/GREEN      #2 ORANGE/BLK</p>	<p style="text-align: center;"><b>D &amp; S DISPLAY TIMER CONNECTIONS</b></p> <p>MA800 or X10      202/203/204</p> <p>YELLOW      BLK/YEL#7 BLACK      WHITE #6 RED/GREEN      BLUE #2 RED/GREEN      WHITE #6</p> <p style="text-align: center;"><b>GINSAN DISPLAY CONNECTIONS</b></p> <p>MA800 or X10      GS31/GS31B</p> <p>YELLOW      RED BLACK      PURPLE RED/GREEN      RED/GRN RED/GREEN      PURPLE CALL FOR TIMER CONNECTIONS</p> <p style="text-align: center;"><b>DILLING &amp; HARRIS CONNECTIONS</b></p> <p>MA800 or X10</p> <p>YELLOW BLACK RED/GREEN RED/GREEN</p> <p style="text-align: center;"><b>SPECIALTY MFG CONNECTIONS</b></p> <p>MA800 or X10      TIME MACHINE</p> <p>YELLOW      BLK-24V BLACK      WHT-COM RED/GREEN      BLK-24V RED/GREEN      YEL- COIN SWITCH</p> <p style="text-align: center;"><b>SECURECOIN TIMER 24 VOLT CONNECTIONS</b></p> <p>MA800 or X10      #ET                     <b>SAME AS IDX AT411</b></p> <p>YELLOW      #2 BLACK      #3 RED/GREEN      #7 RED/GREEN      # 8 or #3</p> <p style="text-align: center;"><b>D &amp; S CONNECTIONS</b></p> <p>MA800 or X10      NON- DISPLAY</p> <p>YELLOW      24V HOT (L1) BLACK      24V COMMON (L2) RED/GRN      COIN RED/GRN      24V COMMON (L2)</p> <p style="text-align: center;"><b>MAGIC WAND &amp; JIM COLMEN TM5/TM5J/ CT2000 CONNECTIONS</b></p> <p>MA800 or X10      TIME MASTER</p> <p>YELLOW      #9 ORANGE BLACK      #10 GREEN RED/GREEN      #10 GREEN RED/GREEN      #2 ORANGE/BLK</p>	<p style="text-align: center;"><b>IDX FLAT PACK 24 VAC CONNECTIONS</b></p> <p>MA800 or X10      AT411/AT422                     AT412</p> <p>YELLOW      PIN #2 BLACK      PIN #3 RED/GREEN      PIN #7 RED/GREEN      PIN #8 or #3</p> <p style="text-align: center;"><b>IDX FLAT PACK 115 VAC CONNECTIONS</b></p> <p>MA800 or X10      AT413</p> <p>115V HOT      PIN #1 115V COMMON      PIN #3 YELLOW      PIN #2 BLACK      PIN #8 or #3 RED/GREEN      PIN #7 RED/GREEN      PIN #8 or #3</p> <p style="text-align: center;"><b>IDX PLUG IN TIMERS 24 VOLT CONNECTIONS</b></p> <p>MA800 or X10      AT401/402/403</p> <p>YELLOW      #2 BLACK      #1 RED/GREEN      #3 RED/GREEN      #1</p> <p style="text-align: center;"><b>MONORAIL PLUG IN TIMER 24 VOLT CONNECTIONS</b></p> <p>MA800 or X10      FOR G2</p> <p>YELLOW      #2 BLACK      #1 RED/GREEN      #3 RED/GREEN      #1</p> <p style="text-align: center;"><b>MONORAIL TIMER 24 VOLT CONNECTIONS</b></p> <p>MA800 or X10      MDC</p> <p>YELLOW      BLK-24V BLACK      WH-COM RED/GREEN      WH/GRN RED/GREEN      WH-COM</p> <p style="text-align: center;"><b>PARAPLATE CONNECTIONS</b></p> <p>MA800 or X10      T24120</p> <p>YELLOW      #2 BLACK      #3 RED/GREEN      #7 RED/GREEN      #8 or #3</p> <p style="text-align: center;"><b>PARAPLATE -NEW 24VAC CONNECTIONS</b></p> <p>MA800 or X10      T24200</p> <p>YELLOW      #1 BLACK      #2 RED/GREEN      #5 RED/GREEN      #6 or #2</p>	<p style="text-align: center;"><b>GINSAN 24 VOLT CONNECTIONS</b></p> <p>MA800 or X10      GS-7/8/75                     GS-87/255</p> <p>YELLOW      #3 BLACK      #1 RED/GREEN      #4 RED/GREEN      #1 TOKEN INPUT      #5 (GS87)</p> <p style="text-align: center;"><b>GINSAN GS9 115 VOLT CONNECTIONS</b></p> <p>MA800 or X10      GS-9</p> <p>YELLOW      #7 BLACK      #5 RED/GREEN      #4 RED/GREEN      #5</p> <p style="text-align: center;"><b>GINSAN GS11 115 VOLT CONNECTIONS</b></p> <p>MA800 or X10      GS-11</p> <p>YELLOW      #1 BLACK      #4 RED/GREEN      #3 RED/GREEN      #4</p> <p style="text-align: center;"><b>KELTNER CONNECTIONS</b></p> <p>MA800 or X10      D9</p> <p>YELLOW      #1 BLACK      #2 RED/GREEN      #4 RED/GREEN      # 5 or #2</p> <p style="text-align: center;"><b>KELTNER CONNECTIONS</b></p> <p>MA800 or X10      LC-1</p> <p>YELLOW      #2 BLACK      #1 RED/GREEN      #4 RED/GREEN      # 3 or #1</p> <p style="text-align: center;"><b>PARKER CONNECTIONS</b></p> <p>MA800 or X10</p> <p>YELLOW      #3 BLACK      #1 RED/GREEN      #4 RED/GREEN      #1</p> <p style="text-align: center;"><b>MARK VII CONNECTIONS</b></p> <p>MA800 or X10      ACCUTIME</p> <p>YELLOW      #2 BLACK      #1 RED/GREEN      #4 RED/GREEN      #1</p>