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# SE-DTMIII Conversion Kit MICROPROCESSOR UPGRADE INSTALLATION & SETUP INSTRUCTIONS

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An upgrade of the DL-Windows program to version 3.5.1 or higher will require that the firmware in the AL-DTM-II module also be upgraded to AL-DTM-III performance. This is accomplished by replacing the microprocessor of the AL-DTM-II with an upgrade chip, part number SE-DTMIII. The instructions below depict the procedure for replacing this chip. The DTM-III allows accounts in DL-Windows to hold up to 2000 locks, while allowing the AL-DTM-III itself to hold up to 200 PDL3000 / PDL3500 type locks, or up to 1000 DL3000 / DL2800 type locks.

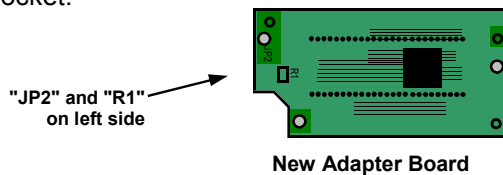
**Note:** If you are unsure about the version of DL-Windows you are running, the version number can be found on the DL-Windows Help menu in the "About" Screen.

## Upgrading the AL-DTM-II

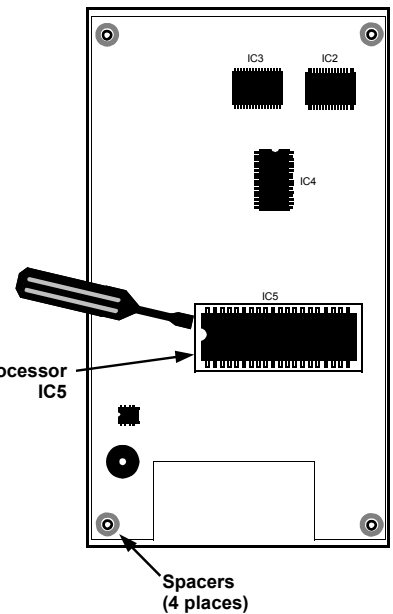
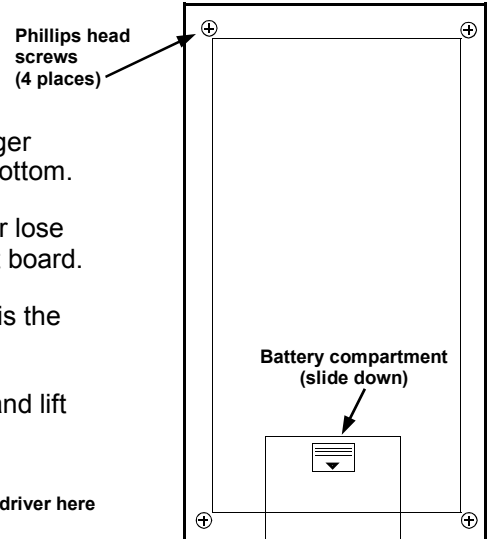
1. Open battery compartment and disconnect battery.
2. Remove (4) Phillips head screws from back of case. **(Note:** The two longer screws secure the top of the unit and the two shorter screws secure the bottom.
3. Remove rear cover. Take care not to pull on the attached battery leads or lose the four (4) plastic spacers which are located on each corner of the circuit board.
4. Locate Microprocessor IC5. This is the only chip placed in a socket, and is the largest on the PC board (located near the center).
5. Insert a small flat-bladed screwdriver under each end of microprocessor and lift with a gentle twisting action.



6. With the new adapter board in hand, align the pins with the socket. The "JP2" connector holes and resistor "R1" should be on the left side of the board when aligning the pins with the socket (see figure below). Press adapter board into the socket, taking care not to bend any interconnect pins. Be sure all pins are fully inserted into the socket.



7. Insure that each of the four (4) plastic spacers is in its proper position.
8. Place rear cover on DTM.
9. Secure cover with the (4) screws (the 2 longer screws secure the top of the unit and the 2 shorter ones secure the bottom).
10. Re-connect battery and close the battery compartment.
11. The software must now be configured for DTM-III operation; follow the Setup procedure on the next page.



## AL-DTM-III Setup

Configure the internal DTM software for DTM-III operation:

1. From *Power Up* or *PC Comm* mode, press and **HOLD** both the left and green buttons on the DTM. After several messages appear, *release the buttons* when the display reads:

ENTERING  
CONFIG/TEST MODE

Release the  
buttons when  
displayed

2. When the display reads "CONFIG. LANGUAGE", the DTM will have entered its configuration and self test mode.
3. Press and release the green button once and the display will read "CONFIG FOR DTM-III MODE".
4. Press and **HOLD** the green button until the DTM beeps and the following text appears:

DTM-III MODE=OFF  
ON OFF EXIT

The top line of the display indicates that DTM-III mode is currently off; the bottom line corresponds to the three buttons on the DTM.

Therefore, to activate DTM-III operation, press the left button. The display will read:

DTM-III MODE=ON  
ON OFF EXIT

(**Note:** If using DL-Windows earlier than version 3.5.1, you must press the center button to keep DTM-III operation off—thus retaining DTM-II operation).

5. Press the green button to exit this sequence. "TASK ENDING!" will appear briefly. The DTM will proceed directly to "Door Selection Mode" as described in the next section:

## Door Selection Mode

1. When the DTM is in Door Selection Mode, the display will switch between the following:

CONFIG. DOOR  
SELECT MODE

Hold Button=Run,  
Press=Next Test

2. Press and **HOLD** the green button until the DTM beeps. The DTM will display:

DOOR SELECT= OFF  
ON OFF EXIT

The top line of the display indicates that Door Select mode is currently off; the bottom line corresponds to the three buttons on the DTM.

Therefore, if using DL-Windows Version 3.5.1 or later and you wish to use the AL-DTM-III to provide initial programming to currently installed locks, press the left button to turn DOOR SELECT on. The display will read:

DOOR SELECT= ON  
ON OFF EXIT

(**Note:** If using DL-Windows Version 3.5.1 or earlier, you must press the center button to keep Door Select mode off. See the DL-Windows User Guide for details regarding Door Select mode).

5. Press and release the green button until the DTM Displays:

Sleep Then  
Power Down.

6. Press and hold the green button until the DTM Beeps. The DTM will perform a brief power control test (TEST RUNNING!) and then shut down within 5 seconds.

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