



Manaras-Opera

**Customer Service &
Technical Support**

Toll Free: 1-800-361-2260

INSTRUCTIONS TO INSTALL THE CHIP “MP4 - XX”

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY BEFORE CHANGING THE CHIP. NEGLECTING TO FOLLOW THESE INSTRUCTIONS WILL RISK DAMAGING THE CONTROLLER AND DOOR. IF YOU ARE NOT CONFIDENT, PLEASE CONSULT MANARAS-Opera FOR ASSISTANCE.

STEP BY STEP CHANGE OVER INSTRUCTIONS

1. To install the chip, you must firstly cut off AC power of operator and then take away the chip that is already on the board.
2. In order to handle new chip with safety, you usually need to wear wrist strap grounding to the earth or power “green wire” for against electrostatic discharge (ESD). If you don't have above protection, it's better to wash hands and avoid touching chip's pins when holding it.
3. There is a key mark on the chip, i.e. a half circle (*Figure 1*) on one side of the chip. A socket on PCB board has the same key mark on the side (*close to STOP push button*). When you install the chip, **make sure the key mark of the chip is on the same side as that of the socket**. Any installation with wrong position could damage the chip.

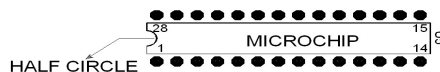



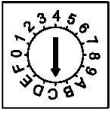
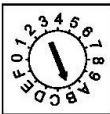

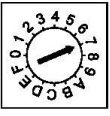
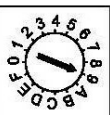
Figure 1

4. Put the chip on the socket; make sure all pins of the chip are properly inserted into holes of the socket. Press on the chip firmly; you should feel a “click” when the chip's is fully into the socket.
5. Put on the AC power and test the operator. In case necessary, re-adjust limits, time-to-close etc.
6. Refer to the next page for programming of different features.

If you need more assistance or information to replace the chip, call our technical support service for helps at **1-800-361-2260**.

Program setting (if required)

Door should be in fully closed position while setting any of the following programs.

PROGRAM SETTING			
PROGRAMS	ACTIVATE	DEACTIVATE	SELECT SWITCH
RUN TIMER	<ul style="list-style-type: none"> Check if close limit switch is activated. Set select switch on D. Open the door fully, 10 sec is added to total travelling time. Set the select switch on (0,1, 2, 3, 4 or 5) 	<ul style="list-style-type: none"> Set select switch on D. Press "Stop" button. Run timer comes to it's default value 90 sec. 	
MID-STOP	<ul style="list-style-type: none"> Check the close limit is activated. Set select switch on "C" Press "Open" & when door reached desired Mid-Stop position press "Stop" 	<ul style="list-style-type: none"> Set select switch on "C" Press "Close" button. 	
TIMER TO CLOSE (TTC)	<ul style="list-style-type: none"> Set select switch on "B" Press "STOP" to reset the TTC = 0 sec Press "Open" button to add 15 sec or "Close" button to add 1 sec each time (max. 4 minutes & 30 seconds) Set the select switch on T (4) or TS (5) mode. 	<ul style="list-style-type: none"> Set select switch on "B" Press "Stop" button the timer to close is reset to 0 sec but still activated. To deactivate the timer to close completely set the switch on desired position (0, 1, 2 or 3) 	
CONTROL TIMER TO CLOSE (from floor level)	<p>Bring door to fully closed position.</p> <ul style="list-style-type: none"> Then, press "Close" 3 times and then "Stop" 3 times consecutively on the push button station (Timer to close active). 	<p>Bring door to fully closed position.</p> <ul style="list-style-type: none"> Press "Stop" 3 times and then "Close" 3 times consecutively on the push button station (No timer to close) 	Not required
TIMER TO CLOSE (from fully open position only)	<ul style="list-style-type: none"> Set select switch on "6" First press the "Close" button and then the "Stop", now TTC function only from fully open position (no TTC at mid-stop) 	<ul style="list-style-type: none"> Set select switch on "6" Press "Close" button. *Now the Timer to Close works from both fully open and Mid-Stop position. 	
ADVANCE CLOSED TIME	<ul style="list-style-type: none"> Set the select switch on "7" Push "Stop" to set default value 200 milliseconds Press "Open" to add 50 milliseconds up to 500 milliseconds max. Press "Close" to deduct 50 milliseconds each time till it reaches 0/sec. 		
	<ul style="list-style-type: none"> LED "INDICAT" ON when any button is pressed. LED "INDICAT" OFF when Adv. Closed time reached to it's max or min. value) <p>The "close limit switch" should be readjusted when the "advance closed time" is programmed or deactivated</p>		
Single Button Radio Control (SBC)	<ul style="list-style-type: none"> Set select switch on 9 Then press Open (INDICATOR LED should light ON) Set the select switch on B2 (1), T (4) and TS (5) mode. 	<ul style="list-style-type: none"> Set select switch on 9 Then, press Stop. (INDICATOR LED should light ON) <p>The radio receiver is back for Standard Commercial Sequence.</p> <ul style="list-style-type: none"> Set the select switch to desired position (0, 1, 2, 3, 4 or 5). 	

Note: If you are not sure if the Timer to Close (TTC) was activated or deactivated, please perform the following sequence that will re-activate the Timer to Close as programmed previously.

Press the close button three (3) times, then press the stop button three (3) times and finally press the close button four (4) times, all continuously.

If you need assistance to program any feature, please call Manaras – Opera technical support for assistance at **1-800-361-2260**