

The background of the entire page is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance.

# **GARAGE DOOR OPENER**

INSTALLATION & OWNERS MANUAL

ARC DG-O

FORTE

# FUNCTIONS

MICRO INTELLECTUAL CONTROL – ONE BUTTON TO CONTROL OPEN, STOP AND CLOSE. THE LIGHT WILL BE ON WHILE OPENING OR CLOSING THE DOOR, THREE MINUTES LATER THE LIGHT WILL BE OFF AUTOMATICALLY. CONTROL THE UNIT RUNNING BY COMPUTER PROGRAM.

TEST THE FORCE OF OPEN OR CLOSE THE DOOR, THE UNIT HAS THE FUNCTION OF PHOTO BEAMS, AUTO-CLOSE, LOCK DOOR ETC.

THE DOOR WILL PAUSE MOMENTARILY THEN REBOUND WHEN IT REACHES THE HINDERS ON THE CLOSING WAY. THE UNIT HAS THE PROTECTING FUNCTIONS OF OVERLOAD, OVER HOT OR LOW POWER INPUT ETC.

DC MOTOR – LOW NOISE, SOFT START, SLOW STOPPING TO PROTECT THE UNIT AND MAKE SURE IT CAN BE USED FOR A LONG TIME.

LED DISPLAY – WORKING SITUATION CAN BE SHOWN ON THE LED SCREEN.

DECODING – ROLLING CODE.

MANUAL DISENGAGEMENT – OPEN AND CLOSE THE DOOR BY HAND WITHOUT POWER.

OPTIONAL FUNCTIONS – PHOTO BEAMS, BATTERY BACKUP, WALL BUTTON AND FLASH LIGHT.

SPECIAL PROTECTION FUNCTIONS – TRAVEL TIME PROTECTION, HALL COMPONENT PROTECTS AND LOW VOLTAGE PROTECTION.

# TECHNICAL SPECIFICATIONS

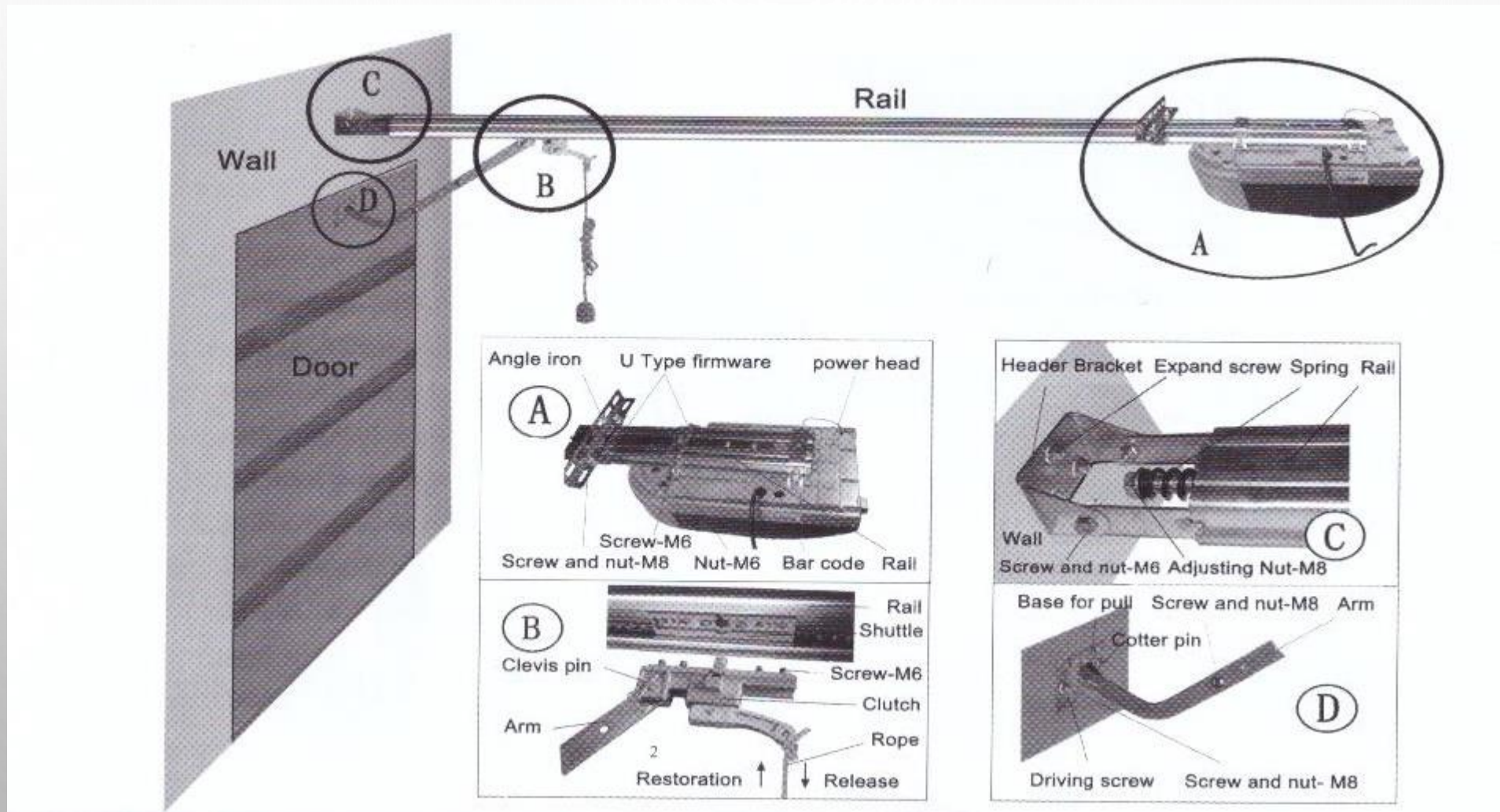
|                      |                              |                            |                   |
|----------------------|------------------------------|----------------------------|-------------------|
| <b>Power input</b>   | <b>220v ac +-10% 50-60hz</b> | <b>Reception frequency</b> | <b>433.92 MHz</b> |
| Motor                | 24v DC                       | Decoding                   | Rolling Code      |
| Working Temp         | -20 - +50 c                  | Transmitter power          | 27A 12V battery   |
| Relative humidity    | <90%                         | Globe                      | LED               |
| Open and Close Force | 600n 800n 1000n 1200n        | Courtesy light time        | 2 minutes         |

# INSTALLATION

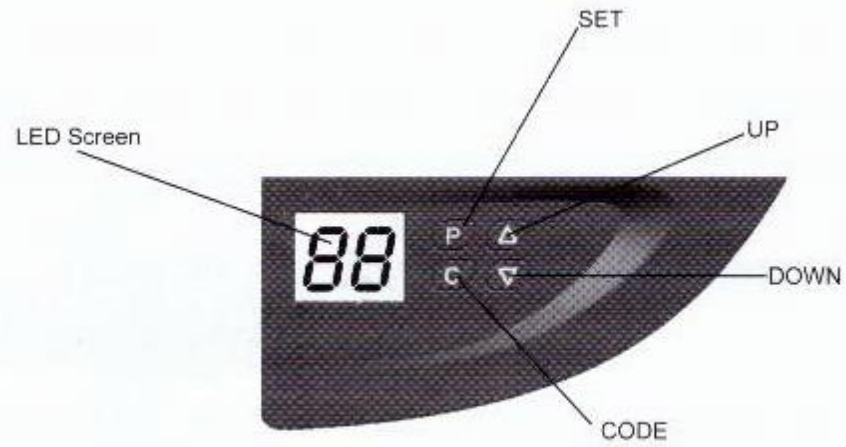
## RECOMMENDED TOOLS

DRILL, STEP LADDER, RATCHET, TAPE MEASURE. CARPENTER'S LEVEL. SCREW-DRIVER, TONGS, NEON-ELECTROSCOPE, MULTIMETER, ADJUSTABLE WRENCH, HAMMER

### INSTALLING THE OPERATOR AND RAIL



## CONTROL PANEL AND TRANSMITTER



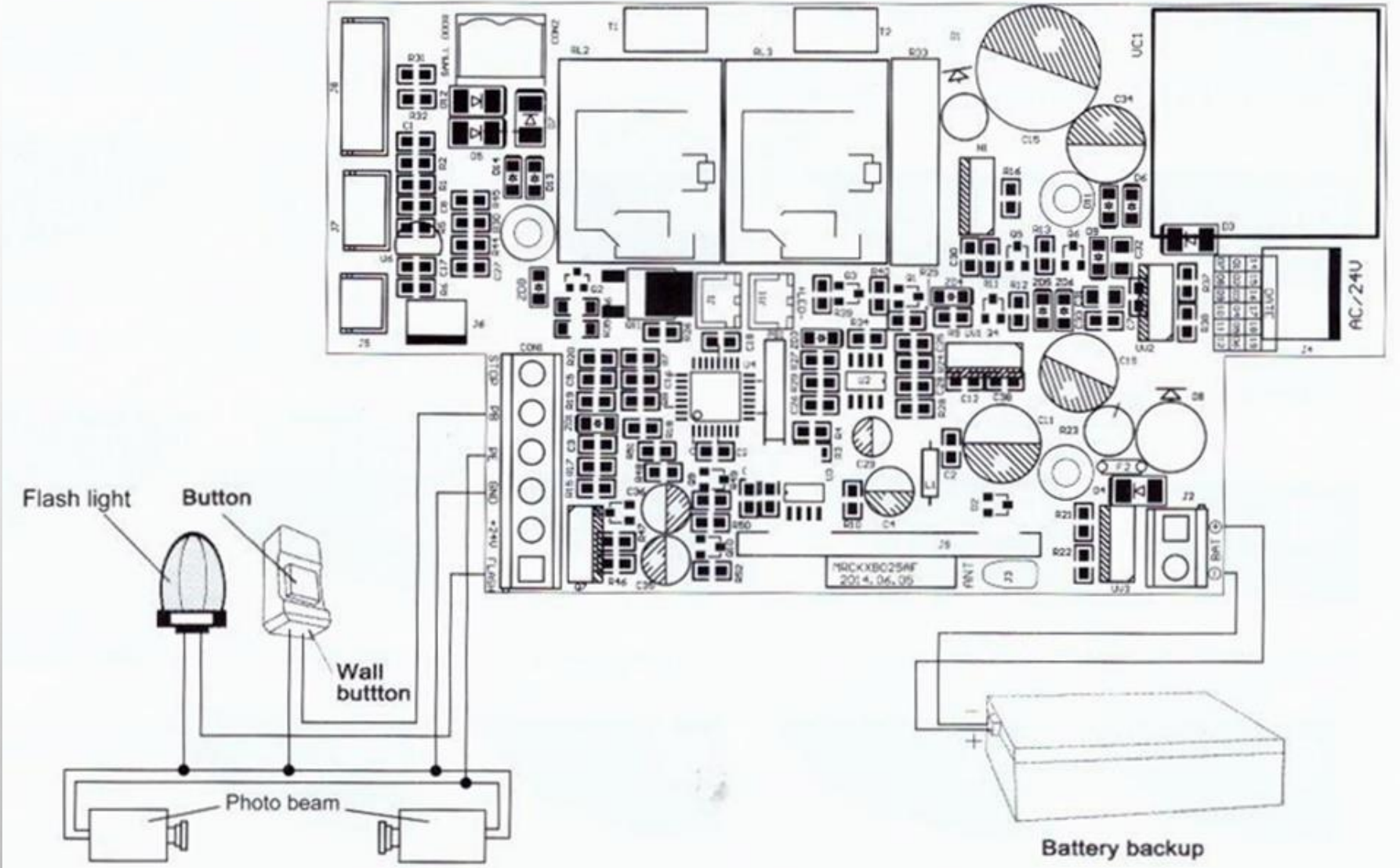
Control panel

Indicator light      Button



transmitter

# OPTIONAL TERMINALS AND CONNECTIONS



## PROGRAMMING THE OPERATOR

### PREPARING

MAKE SURE THE SHUTTLE IS LOCKED, PULL OR PUSH THE DOOR TO CONFIRM THE SHUTTLE CONNECT WITH THE CHAIN.

TURN ON THE POWER, THE COURTESY LIGHT WILL BE LIGHT FOR SEVERAL SECONDS, AT THE SAME TIME, THE LED DISPLAYS THE NUMBER FROM 99 TO 11. THEN THE OPERATOR TURNS TO STANDBY SITUATION.



TURN ON THE POWER, LED DISPLAYS FROM 99 TO 11 – AT LAST, IT DISPLAYS “- -”

### SETTING OPEN AND CLOSE POSITIONS



PRESS AND HOLD **P** → UNTIL IT DISPLAYS **P1**, PRESS **P** → – IT DISPLAYS **OP**, PRESS **△** WHEN THE DOOR HAS REACHED THE OPEN POSITION, PRESS **P** →



IT DISPLAYS **CL** THEN PRESS **▽** – IT DISPLAYS '**CL**'. WHEN THE DOOR HAS REACHED THE CLOSED POSITION, PRESS **→**, THE DOOR WILL NOW OPEN AND CLOSE AUTOMATICALLY TO MAP THE OPEN AND CLOSE SENSITIVITY FORCE REQUIREMENTS – IT DISPLAYS “- -” TO SHOW SETTING IS COMPLETE.

### SELF LEARNING TRANSMITTER

WHEN THE UNIT HAS STORED 20 CODES, LED WILL FLASH '**FU**' OR PREVENTING CODING MISTAKES, IT IS NECESSARY TO CANCEL ALL STORED CODES.



WHEN IT DISPLAYS '**FU**', PRESS AND HOLD **C (CODE)**, THE DOT FLASHES, KEEP MORE THAN 8 SECONDS UNTIL IT DISPLAYS '**DL**' ALL THE CODES WILL BE CANCELLED.

### ADDING OR CHANGING TRANSMITTERS



PRESS **C (CODE)** – IT DISPLAYS '**SU**', PRESS A BUTTON ON THE TRANSMITTER, THEN RELEASE AND PRESS THE SAME BUTTON AGAIN, THE DOT WILL FLASH, THEN IT DISPLAYS “- -” TO SHOW THE SETTING IS COMPLETE.

REPEAT ABOVE STEPS TO CODE A MAXIMUM OF 20 DIFFERENT TRANSMITTERS AND/OR BUTTONS.

### FORCE ADJUSTMENTS

THE DOOR MEETS THE HINDERS WILL REBOUND AND IT STOPS AUTOMATICALLY WHEN OVERLOAD.



PRESS AND HOLD **P** → IT DISPLAYS “**P1**”, PRESS  $\Delta$  ONCE, IT DISPLAYS “**P2**”, PRESS **P** AGAIN TO SHOW THE CURRENT SITUATION. PRESS  $\Delta$  TO INCREASE THE FORCE ONE DEGREE AND PRESS  $\nabla$  TO DECREASE ONE DEGREE. MAXIMUM DEGREE IS “**F9**” AND MINIMUM IS “**F1**”.

PRESS **P** TO CONFIRM. THE DEFAULT SETTING IS “**F5**”

### PHOTO BEAM



PRESS AND HOLD **P**, IT DISPLAYS “**P1**”, PRESS  $\Delta$  TWICE, IT DISPLAYS “**P3**”.

PRESS **P** TO SHOW CURRENT SITUATION. PRESS  $\Delta$  ONCE, IT DISPLAYS **H1**, THE PHOTO BEAM IS ENABLED. PRESS  $\nabla$  ONCE, IT DISPLAYS “**H0**”, THE PHOTO BEAM IS NOW DISABLED. PRESS **P** TO CONFIRM AND QUIT.

**NOTE: IF NOT USING PHOTO BEAM – PLEASE CLOSE THIS FUNCTION**

### AUTO CLOSE ON/OFF



PRESS AND HOLD **P**, IT DISPLAYS “**P1**”, PRESS  $\Delta$  THREE TIMES, IT DISPLAYS “**P4**”. PRESS **P** TO SHOW CURRENT SITUATION. PRESS  $\Delta$  TO INCREASE THE AUTO-CLOSE ONE MINUTE, AND PRESS  $\nabla$  TO DECREASE ONE MINUTE. MAXIMUM DEGREE IS “**B9**” AND MINIMUM IS “**B0**”. PRESS **P** TO CONFIRM. THE DEFAULT SETTING IS “**B0**”

(“**B0**” SHOWS AUTO-CLOSE OFF)

### LOCK DOOR

WHEN YOU USE UNCOVERED TRANSMITTERS, IT IS RECOMMENDED TO USE THE LOCK DOOR FUNCTION. WHEN THIS FUNCTION WORKS, YOU CAN'T OPEN THE DOOR UNTIL YOU PRESS THE “UNLOCK” BUTTON FIRST



PRESS AND HOLD **P**, IT DISPLAYS “**P1**”, PRESS  $\Delta$  FOUR TIMES, IT DISPLAYS “**P5**”. PRESS **P** TO SHOW CURRENT SITUATION. PRESS  $\Delta$ , IT DISPLAYS “**LC**”, LOCK DOOR FUNCTION WORKS. PRESS  $\nabla$ , IT DISPLAYS “**UL**”, THE LOCK DOOR FUNCTION DOES NOT WORK. PRESS **P** TO CONFIRM THE FUNCTION YOU NEED.

## OWNERS GUIDE.

### ATTENTION IN USE

1. AT THE FIRST TIME USING THE DOOR, PLEASE TEST THE DRIVING SYSTEM TO SEE IF IT MOVES WELL.. (TEST METHOD: UNLOCK SHUTTLE, PUSH AND PULL THE DOOR BY HAND).
2. CHECK THE CONNECTION WITH APPROPRIATE POWER AND SOCKET BY PROFESSIONALS, AND CONNECTED GROUND WIRE WITH THE EARTH.
3. USING THE TRANSMITTERS IN YOUR SIGHT. DO NOT STAND OR WALK UNDER A MOVING DOOR. THE TRANSMITTERS SHOULD BE OUT OF REACH OF CHILDREN.
4. MAKE SURE THE DOOR OUT OF THE REACH OF FIRE, MOISTURE, ELECTROMAGNETISM AND SOME OTHER PLACES.
5. CHECK AT LEAST TWICE A YEAR THAT THE DOOR IS PROPERLY BALANCED AND THAT ALL WORKING PARTS ARE IN GOOD WORKING CONDITION. ADJUST THE TENSILE FORCE OF CHAIN. ADD SUTIABLE AMOUNT OF LUBRICANT TO THE ACTIVE SYSTEM.

## EXAMINATION GUIDE

| Problem   | Causes   | Solution  |
|---|--|---|
| The motor does not work                                       | The socket is not well connected, or the fuse is broken                | Check the socket. Replace the fuse.                     |
| After setting open & close positions, the motor does not work | The screws of fixing the hall components are loose<br>Program mistakes | Tighten the screws.<br>Reset open and close positions   |
| The door can't be closed                                      | Photo beam function works  | Cancel the photo beam function                          |
| The wall button works well, but the transmitter does not work | No transmitter learning.<br>Transmitter battery low                    | Code referring to 6.3<br>Change the transmitter battery |
| Too short of transmitter distance.                            | The transmitter battery is near power off                              | Change new transmitter battery                          |