



Instruction Manual

CLAW CRANE MACHINE



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This manual explains how to set up your Claw Crane Machine through the settings menu and how to solve error codes. Please read it carefully before using the machine.

1 SETTINGS MENU

● OPEN THE SETTINGS

- Switch on the machine and press the setup button for 3 seconds.
- The settings cannot be opened during a game.
- The main menu contains: 1. Account, 2. Basic settings, 3. Game settings, 4. Language (menu language) and Back.

● ADJUST A PARAMETER

- In the main menu, move the joystick up or down to select a function.
- Press the button to enter.
- Move the joystick left or right to change the value.
- Press the button to confirm and return to the menu.

2 ACCOUNT

Main menu > 1. Account

1 Details

Total: total income and prizes won

Current: current income and prizes won

Payrate: current payout rate

2 Clear data

Select “Yes” to clear the current income, prizes won and win rate.

Important: the total income cannot be cleared.

3 BASIC SETTINGS

Main menu > 2. Basic settings

1	Demo music	Interval of the demo music while the machine is waiting for a player. Range: 0–30 minutes
2	Sky Catch	If “Yes”, the player can press the button to catch while the claw is going down. Not recommended: the game may end before the claw reaches the prizes.
3	Crane middle	If “On”, the claw moves to the middle automatically after a coin is inserted.
4	Coin keep	If “On”, the machine remembers the inserted coins when it shuts down accidentally.
5	Test mode	Press the button to confirm: the test starts immediately and shows the number of test runs.
6	Free play mode	Play without inserting coins.
7	No Capsule Play	If “On”, the machine keeps working when there are no capsules left (capsule payout mode).
8	IO test	Press the button to open the submenu: Coin mech test: tests the coin acceptor Joystick test: tests the joystick Microswitch test: tests the micro switches
9	Sensor	If “No”, the machine keeps working even when the sensor is faulty.

4 GAME SETTINGS

Main menu > 3. Game settings (items 1–4)

1 Coin/play Coins per play: how many coins buy how many games.
Range: 1–99 coins for 1–9 games

2 Game time Duration of one game.
Range: 1–60 seconds. **Default:** 20 seconds

3 Prize mode **Fix:** the win ratio is fixed, based on the programmed win ratio.
Random: the win ratio is random, based on the programmed win ratio.
Vending mode: the player keeps playing until they win a prize.

4 Pay rate **Payout setting:** number of games per prize.
Compensate: number of prize catches when a player has not won within the programmed payout, so the player is sure to win a prize.
Capsule set: shows an error when there are no capsules (gacha) left. Default: Off.

Tip: the claw strength (5. Catch set) is explained on the next page.

5 CATCH SET: CLAW STRENGTH

Main menu > 3. Game settings > 5. Catch set

The claw voltage sets how strongly the claw grips. Range: 0–48 V.

SETTING	FUNCTION	STRENGTH	DEFAULT
Strong catch	Strength when the claw grabs the prize	Strong	35 V
Middle catch	Strength after the grab, while the claw moves back to the top	Middle	17 V
Weak catch	Strength while the claw moves from the top to the prize exit	Weak	13 V
Prize catch	Strength of the claw to win the prize	Very strong	45 V

TIMING

Weak time	Duration of the weak catch.
Drop delay	Duration of the middle catch when the claw is at the top.

- The default values are an example for 5–7 inch toys weighing 0.08–0.16 kg.
- Every toy is different: adjust the values to the actual situation and test.
- Normally: prize catch > strong catch > middle catch > weak catch.

Important: the claw voltage is one of the key settings during operation. Adjust it to the actual situation and choose the best setting.

6 CLAW MOVEMENT & RECOVERY

Main menu > 3. Game settings (items 6–9)

- | | | |
|---|---------------|--|
| 6 | Top stay time | Duration of the strong catch. |
| 7 | Down height | Sets how far the claw goes down.
General setting: do not let the claw go down past the sensor. |
| 8 | Motor speed | FB motor: speed forward and backward
LR motor: speed left and right
UD motor: speed up and down |
| 9 | Recovery | Restores the system when a problem cannot be solved in any other way. |

Attention: if the claw goes down past the sensor, it may cause an error.

Beware! Recovery erases all previous settings for good. Afterwards, set all parameters again for your situation.

7 ERROR CODES

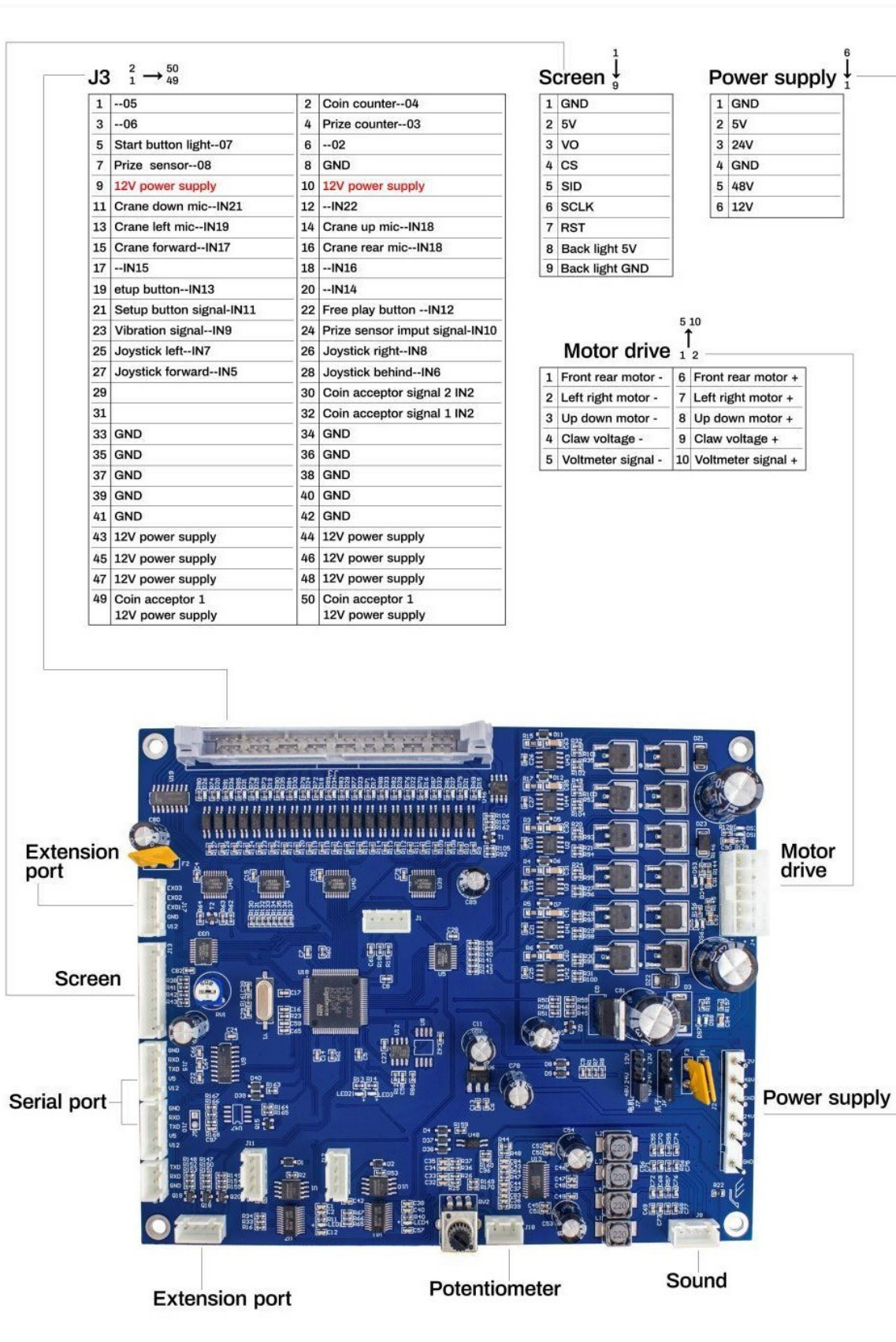
Open the settings to test the part that causes the error.

CODE	CAUSE	SOLUTION
Error 1	Lower micro switch	Test the lower micro switch in the settings.
Error 2	Sensor	Test the sensor in the settings and adjust its sensitivity.
Error 3	Front micro switch	Test the front micro switch in the settings.
Error 4	Upper micro switch	Test the upper micro switch in the settings.
Error 5	Rear micro switch	Test the rear micro switch in the settings.
Error 6	Left micro switch	Test the left micro switch in the settings.
Error 7	Coin acceptor	Test the coin acceptor in the settings.

Problem not solved? Restore the factory settings: Game settings > 9. Recovery. All settings will be lost.

WIRING DIAGRAM

Main board connections: J3, screen, power supply and motor drive.





NEED MORE HELP?

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