

American Changer Corp
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OPERATIONS MANUAL

SERIES AC300

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Specifications

Operating voltage 120 VAC +10/-15 %
 Power consumpt.(controller only, add hopper and validator)10w
 Operating temperature 32 - 130 degrees Fahrenheit
 Interface to Hoppers 24vdc & 12vdc 1.5 amps max.
 Interface to Validators 120vac .5 amps max.

Warranty

The JCM Bill Validator is warranted for one year from date of purchase.

COVERED

¥ Defect in workmanship or material.

NOT COVERED

- ¥ Damage caused by physical abuse.
- ¥ Misapplication.
- ¥ Vandalism.
- ¥ End users attempt, on his own to repair item.
- ¥ Cleaning maintenance.

It is the End User's responsibility to clean & maintain all their parts. Any unit coming in for repair requiring only a cleaning will be charged a flat rate of \$65.00 plus shipping and handling.

Dispensing System and Logic Board

The dispenser and logic board is warranted for 6-months from date of purchase.

COVERED

¥ Defects caused by material or workmanship.

NOT COVERED

- ¥ Damage caused by physical abuse.
- ¥ Misapplication.
- ¥ Vandalism.
- ¥ End Users attempt, on his own to repair.

A Return material authorization number (RMA#) must be obtained before returning a unit for repair . A copy of invoices must accompany any and all warrantee work.

Jan'04

UNCRATING AND SETUP OF THE AC300-B CHANGER

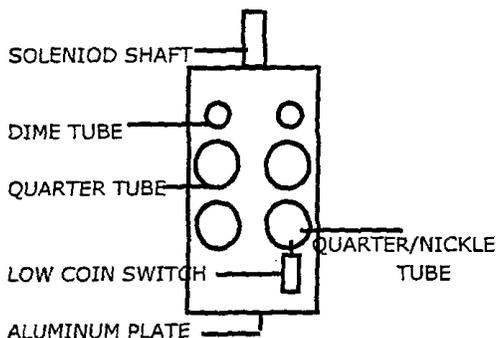
Remove the Mini changer from the shipping box. Open the door (the keys will be in the manila envelope with this manual) and inspect closely for any shipping damage. Pull forward on the coin dispensing unit (The part with the clear vertical tubes) and set it on the door. Extend the Power cord through the inside, back of the cabinet and plug it into a grounded 120vac outlet only! On the back of the cabinet will be a board with a on/off switch on the bottom left-hand corner. The switch has a "I" and "O" on it. The "I" pushed down turns the AC300-B "ON".

With power applied, the green LED light steady and the green LED's on the front of the validator (bill acceptor) will be flashing until change is filled into the hopper.

NOTE: There is no way to make a duplicate key to the changer and every one of our keys is keyed differently. If you need a duplicate key made, we suggest a local locksmith or lock company.

FILLING THE DISPENSER

There are two ways the hopper can be filled. If you fill the four front large tubes with quarters and leave the back two dime tubes empty your pay-out will be 4 quarters. You can also fill the large front right tube with nickels, the other three large tubes with quarters and the back two small tubes with dimes. This will give you a pay-out of 3 quarters, two dimes and a nickel



Slide Plate Sub-Assembly

WARRANTY INFORMATION

THE AC300-B is cover under a one year warranty for the following components.

1. Cabinet and optional Base and Header kit.
2. All wire harnesses.
3. Bill Validator.
4. Power supply board.

The Mini dispenser is covered by a 6 month warranty only to include all components found inside and part of the Mini Dispenser.

Vandalism and the end user's attempt at repair is not covered under warranty. Also not covered is normal cleaning and maintenance associated with dirt or dusty environments. Any unit returned due to these circumstances will be charged a \$35.00 cleaning fee. (See page 2 for cleaning and maintenance procedures.)

American Changer will only pay for normal ground shipping 30 days after the sale of the changer. We will not pay for the shipping of the bad component back to us after 30 days. All advanced replacements require collateral before the shipment of the of the new part. Collateral can be either a major Credit Card number or the approval of your distributor.

USING BANK ROLLED OR MACHINE SORTED COINS EXTENDS THE LIFE OF THE ALUMINUM PLATE!!!

FOR TECHNICAL INFORMATION, RETURN A PART FOR REPAIR, OR ORDER A PART, CALL TOLL FREE
1-888-741-9840

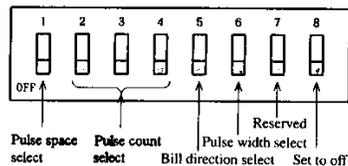
ALL REPAIR RETURNS OR ADVANCE REPLACEMENT RETURNS MUST HAVE A RETURN AUTHORIZATION NUMBER OR THE PACKAGE WILL BE REFUSED!

CLEARING A BILL JAM / CLEANING THE JCM DBV-10 VALIDATOR

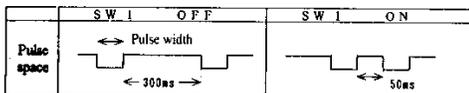
1. Open the changer door.
2. On either side of the bill validator, loosen the two thumb screws until the top of the DBV-10 flips open.
3. If you are servicing a bill jam remove the stuck bill, ensuring that you find any bill pieces that may have ripped off of the jammed bill.
4. If you are just performing cleaning maintenance, then clean the three bottom and three top sensors with a cotton swab and a mixture of 50% Isopropyl alcohol and 50% water. Also wipe off the Magnetic Head on the top of the validator (It looks like a cassette player hear) with the same swab.
5. Re-assemble the validator

NOTE: If you perform these functions with power applied to the AC300-B, you will notice the two back sensors are lit red and the front one is out. **THIS IS NORMAL.**

4. Setting the DIP switches



Setting the Pulse space



Setting the Pulse count

	SW2	SW3	SW4
1 pulse/\$	OFF	OFF	OFF
2 pulses/\$	O N	OFF	OFF
3 pulses/\$	OFF	O N	OFF
4 pulses/\$	O N	O N	OFF
5 pulses/\$	OFF	OFF	O N
8 pulses/\$	O N	OFF	O N
10 pulses/\$	OFF	O N	O N
20 pulses/\$	O N	O N	O N

Setting the Bill direction

SW5 OFF : 2 way
ON : 1 way

Setting the Pulse width

SW6 OFF : 50 ms
ON : 450 ms

MOUNTING THE AC300-B

THE AC300-B has 4 holes pre-drilled into the left side of the cabinet. This is for easier mounting to

the right side of another (vending) machine. The AC300-B also has 4 holes which can be punched out on the back of the cabinet for wall mounting. To remove these, take a large screw driver and a mallet and from the outside knock the punch-outs into the cabinet. Warning: you should remove the Coin dispenser and power supply board before punching out any of the back holes.

Now that you have chosen the way to mount the changer, hold up the cabinet to where you would like it mounted and mark the holes.

WARNING: BEFORE DRILLING HOLES INTO A WALL OR ANOTHER MACHINE MAKE SURE THAT THERE ARE NOT ANY CABLES, WIRE HARNESSSES, WIRES, PLUMBING, OR ANY VITAL OR DANGEROUS SYSTEMS IN THE AREA YOU ARE ABOUT TO DRILL. AMERICAN CHANGER CANNOT BE HELD ACCOUNTABLE FOR AND DAMAGE, INJURY, OR LOSS OF LIFE DUE TO THE INSTALLATION OF THIS CHANGER. IF YOU HAVE ANY DOUBT ABOUT YOUR ABILITY TO CONTINUE WE SUGGEST YOU SEEK A LOCAL PROFESSIONAL TO FINISH THIS PROCEDURE.

Drill the 4 marked holes. Attach the changer using at least 3 bolts 1/4" in size. (not included) If you are mounting the changer to a wall, you will need a stud finder and at least 2 lag bolts 2" in length (not included) to hold the 27 pound changer securely.

SECURING THE BASE AND / OR HEADER KIT TO THE AC300-B

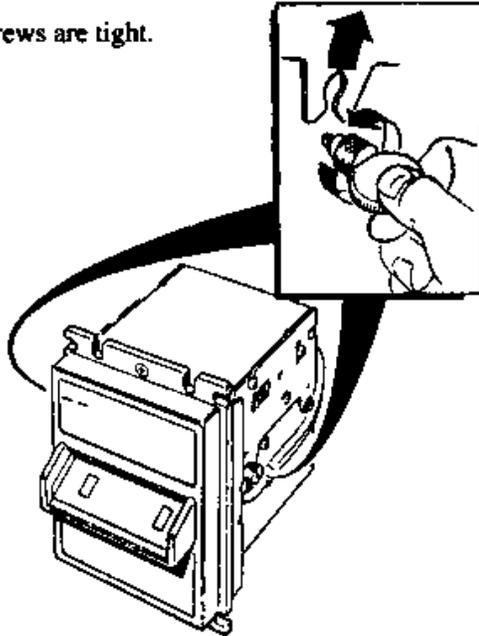
1. Remove the Coin Dispenser from the cabinet.
2. Set the header on top of the cabinet and tighten the 4 screws 1/4 x 1" through the cabinet into the header.
3. Set the cabinet on top of the base.
4. Install the 4 bolts 1/4" x 1-1/2 through the inside of the changer into the base and tighten.
5. *Optional.* You may want to bolt down the changer to something to prevent someone for taking the whole changer assembly.

AC300 BILL VALIDATOR CLEANING AND UN-JAMMING

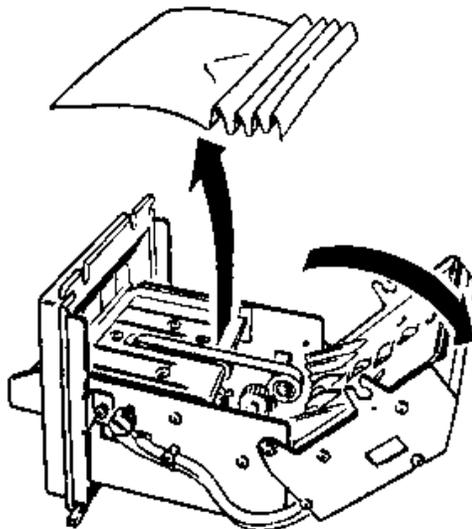
8. When the Acceptor is jammed

Loosen thumb screws on both sides of the Acceptor.

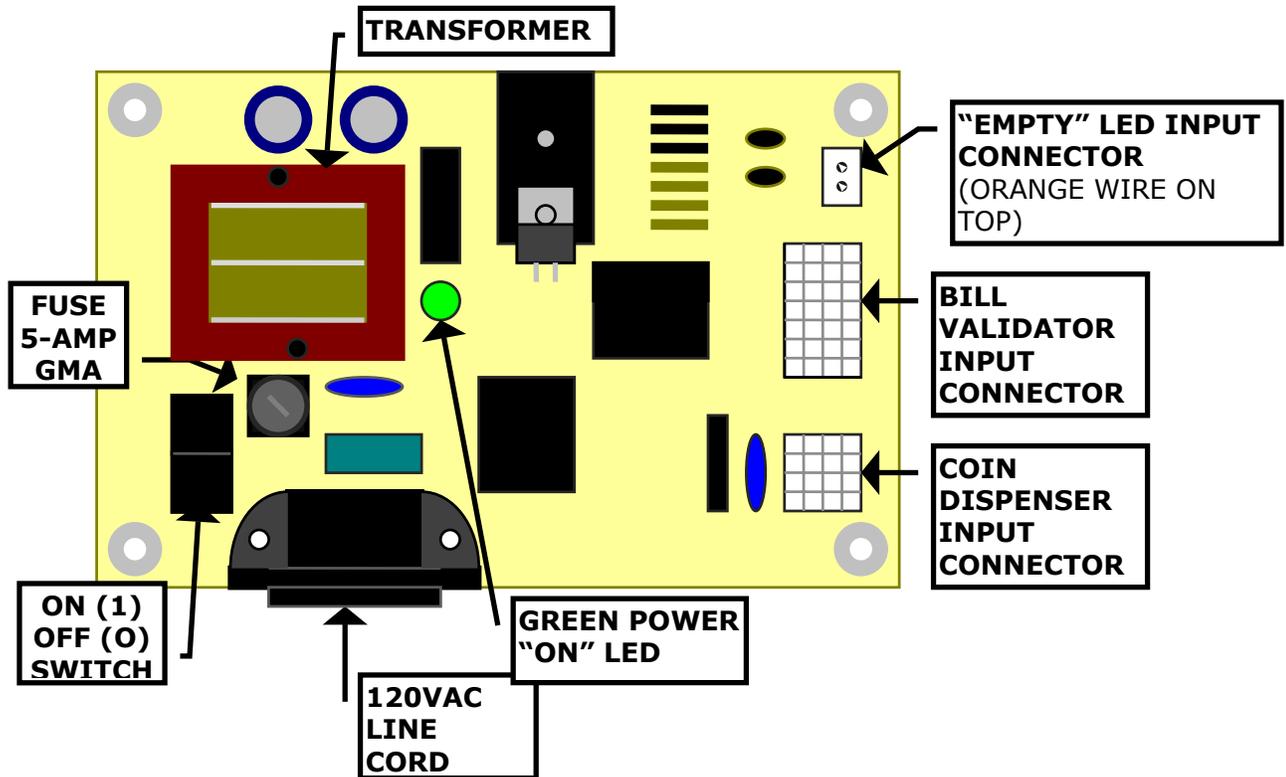
Use a coin in case thumb screws are tight.



9 Lift the upper cover to remove the bill



POWER SUPPLY BOARD (Figure #3)



PROBLEM

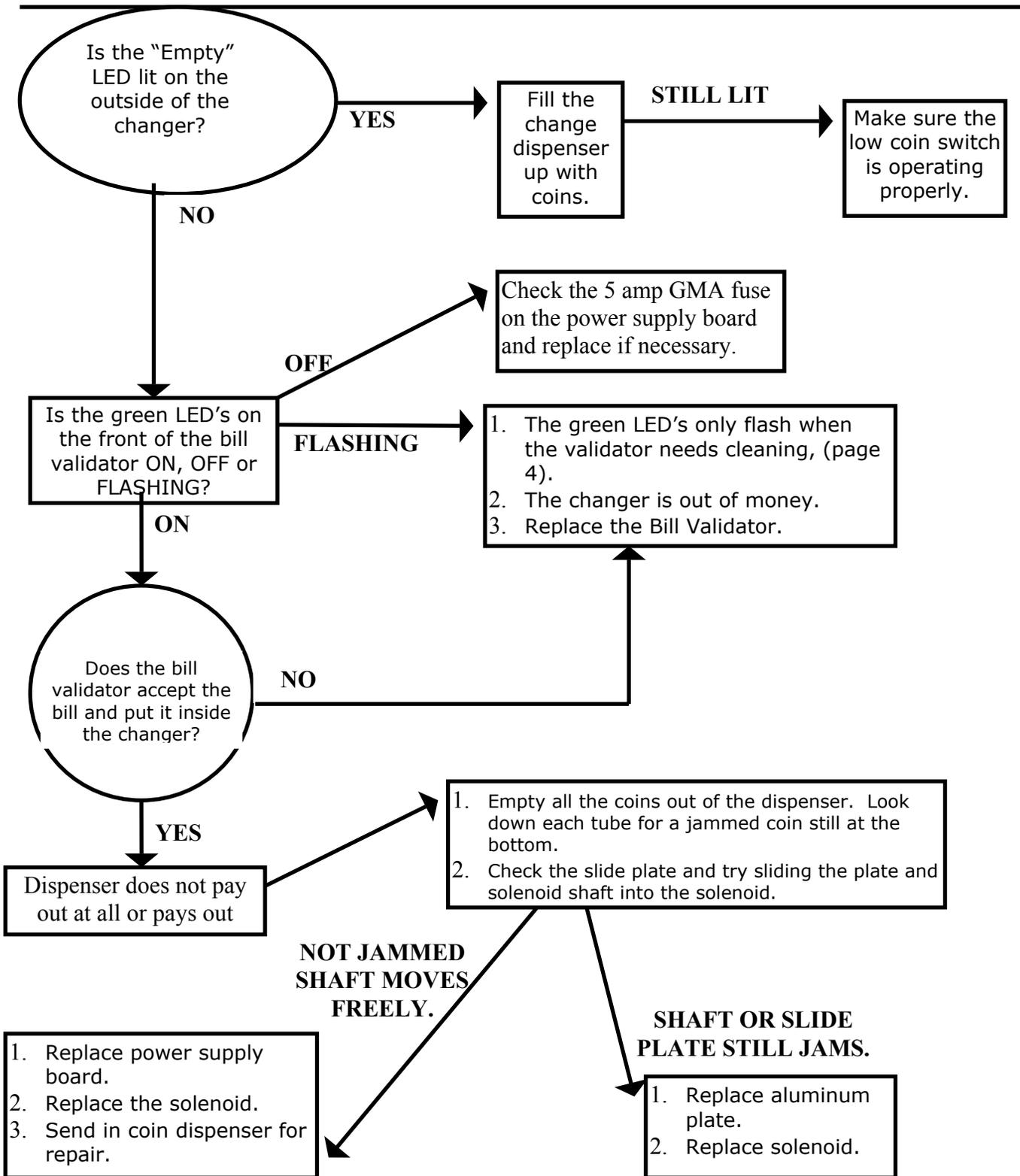
1. Green LED on the power supply does not light.
2. Red "Empty" LED is lit on the outside of the changer and the Green LED's on the bill validator are flashing.
3. Green LED's on the front of the validator are flashing and the red "Empty" LED is not lit.
4. Coins are jamming in dispenser or the dispenser is misplaying.
5. The 5-amp fuse keeps blowing.

SOLUTION

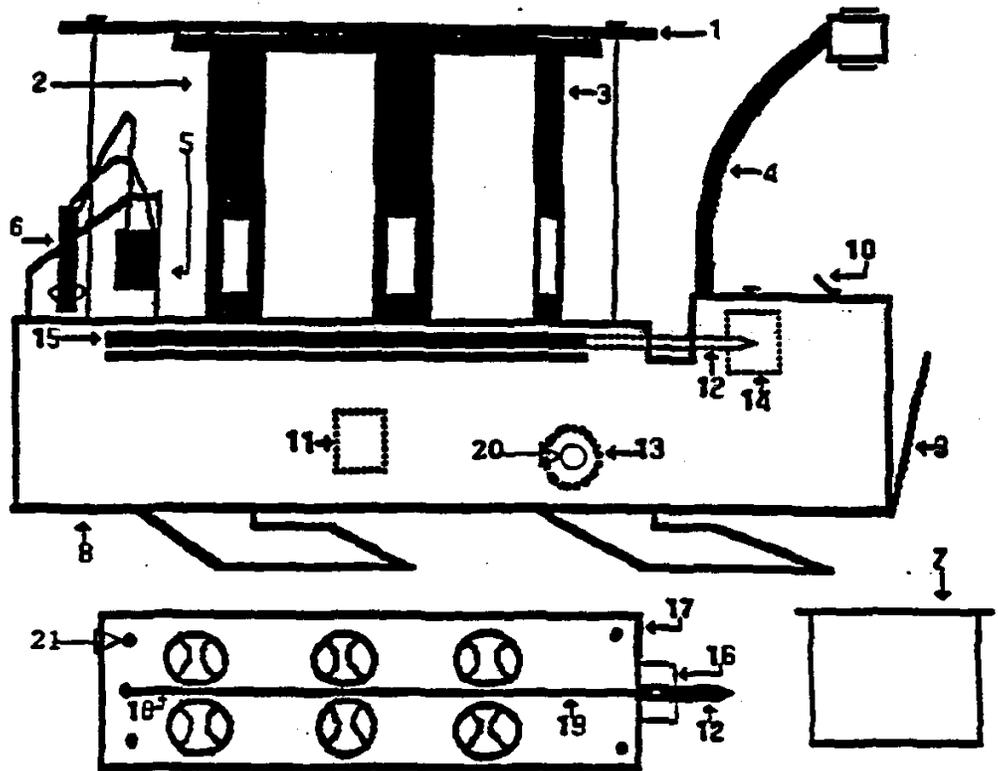
- A. **No 120vac present.**
 1. Make sure the ON / OFF switch on the power supply board is "ON"
 2. Make sure there is 120vac at the wall outlet.
 3. Make sure the AC line cord is plugged in snugly into the line cord socket on the power supply board.
 4. Check the 5-amp GMA fuse on the power supply board. *If this fuse continues to blow every time a dollar is accepted then the solenoid needs to be replaced.*
 5. Replace power supply board.
 6. Replace line cord.
- B. **Coin dispenser is out of coins.**
 1. Re-fill dispenser with coins.
 2. Faulty low coin micro-switch. (Replace switch)
- C. **Bill validator is dirty or jammed.**
 1. Clean out validator. (Page 2.)
 2. Replace bill validator.
- D. **The aluminum plate is worn out.**
 1. Replace aluminum plate.
- E. The pay out solenoid is shorted.
 1. Replace the solenoid.

Technical flow diagram for the AC300

NOTE: Before starting this procedure; make sure that the changer is plugged in, the ON / OFF switch is "ON", and that all wire harnesses are connected securely and correctly. You must also have at least 10 coins in the front right coin tube.



PART # AC3015.1 —MINI DISPENSER



***NOTE:** IF DISPENSING 3 QUARTERS, 2 DIMES AND 1 NICKEL, INSERT THE NICKELS INTO THE MICRO SWITCH.

- | | | | |
|----------|-------------------------|----------|-----------------------------|
| 3015-01. | (a) Large tube bracket | 3015-10. | Male ground connector |
| | (b) Small tube bracket | 3015-11. | Relay (inside housing) |
| 3015-02. | Quarter tubes | 3015-12. | Plunger |
| 3015-03. | Dime tubes | 3015-13. | Fuse holder (opposite side) |
| 3015-04. | 9 Pin connector harness | 3015-14. | Solenoid |
| 3015-05. | Micro switch | 3015-15. | Aluminum plate |
| 3015-06. | Micro switch harness | 3015-16. | Slide plate |
| 3015-07. | Coin flap | 3015-17. | Stainless steel plate |
| 3015-08. | Metal housing | 3015-18. | Solenoid spring |
| 3015-09. | Bracket spring | 3015-19. | Solenoid spring link |
| | | 3015-20. | FUSE 5AMP AS |
| | | 3015-21. | HEX HEAD SCREW 1½" |