



MS-8

OPERATION MANUAL

INTRODUCTION

We wish to thank you for your purchase of our MS-8 mail scale. This instrument has been designed and manufactured within the U.S.A. with quality and reliability.

This manual will help acquaint you with the features of this instrument, its proper installation, adjustment, operation and care. **Please read this manual before attempting to operate the system and keep it handy for future reference.**

FCC COMPLIANCE STATEMENT

WARNING! This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures necessary to correct the interference.

All rights reserved. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. While every precaution has been taken in the preparation of this book, we assume no responsibility for errors or omissions. Neither is any liability assumed for damages resulting from the use of the information contained herein. All instructions and diagrams have been checked for accuracy and ease of application; however, success and safety in working with tools depend to a great extent upon the individual accuracy, skill and caution. For this reason, we are not able to guarantee the result of any procedure contained herein. Nor can we assume responsibility for damage to property or injury to persons occasioned from the procedures. Persons engaging the procedures do so entirely at their own risk.

SERIAL NUMBER _____


DATE OF PURCHASE _____

PURCHASED FROM _____


RETAIN THIS INFORMATION FOR FUTURE USE

PRECAUTIONS

Before using this instrument, read this manual and pay special attention to all "WARNING" symbols:



IMPORTANT



ELECTRICAL WARNING

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SPECIFICATIONS

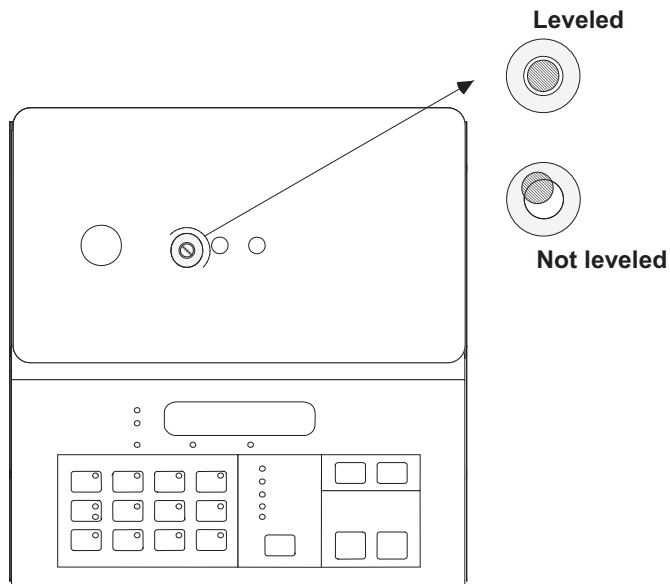
- Postal Services ...First Class
 - Priority
 - Presort
 - Zip + 4
 - Third Class/Parcel Post
 - Special 4th Class
 - Bound Printed Matter
 - Express Post Office to Addressee
 - International (Air and Surface)
 - Parcel Post
 - Letter
 - Regular Printed Matter
 - Certified/Certificate of Mailing
 - Registered
 - Insured
 - Special Delivery
 - Return Receipt
 - COD
- FeaturesPiece Count
 - Meter Set
 - Replaceable Rate Module
 - Weight, Rate, and Service Indicators
- Power Requirements115 VAC, 60 Hz, 80 mA
- Dimensions10" L x 9.75" W x 3.25" H
- Capacity8 lb x 0.1 oz
- Display5 Digit, 0.5" H, 7-segment LED
- Weight7 lb 14.5 oz
- Temperature Range0° - 37° C/32° - 100° F
- OutputSerial Port for Postage Meter Interface

INSTALLATION

Remove the MS-8 from its packing, inspect the scale for signs of damage due to shipping such as exterior dents and scratches. Should evidence of shipping damage be found, the carrier should be contacted at once. All claims for damage incurred during shipment must be filed with the carrier.

Keep the packing and shipping material for future storage or transport of scale.

Place the MS-8 on a stable, level surface away from direct sunlight and any rapid moving air source. **Note:** Scale must be set up and operated on a level surface. To level scale, first remove the stainless steel cover to view level gage. Level the scale by adjusting the back two legs on the scale bottom, up or down, until the bubble in the level gage is centered. Return cover to original position.



Plug the connector at the end of the cable into the power jack at the rear of the MS-8. Plug the power converter into a 115 VAC, 60 Hz wall outlet making certain the converter cable is secure from disturbance. The MS-8 will issue several sequential tones and display the current program version:

r 1.0

(1.0 representing the current version number) followed by the ZIP code (first 3 digits) for the installation location.

Example:

123

To verify that all keypad lamps and display segments are operational, press and hold down the ENTER key while applying power. The MS-8 will perform a full "lamp test."

To force the scale to a zero weight reading on power-up, press and hold down the WEIGHT/ZERO key.

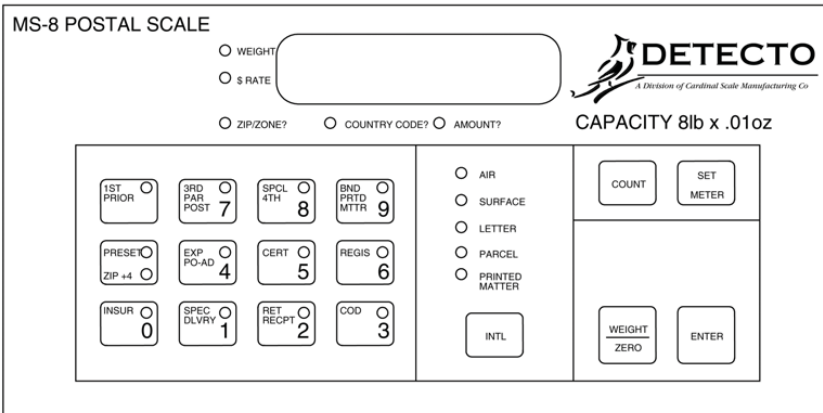
KEYPAD AND DISPLAY OPERATION

Each key on the keypad which selects a service (method of shipment) is equipped with a lamp which illuminates whenever service is selected and active. The PREST ZIP+4 and INTL keys require multiple presses to select the desired service.

A key lamp will flash when key-entry of information relating to that service is required. In addition, one of the lamps labeled ZIP/ZONE?, COUNTRY CODE? or AMOUNT? will also flash to indicate what type of information is required.

When entering a ZIP or country code, the MS-8 will automatically terminate the input operation when the third digit is entered. Input is also terminated when a 5-digit AMOUNT is keyed in. When entering a zone (1 digit) or an AMOUNT less than 5 digits, the ENTER key must be pressed after the last digit.

KEYPAD AND DISPLAY OPERATION, Cont.



Whenever a postage rate is displaying, the \$ RATE lamp will be lit. Whenever scale weight is displayed, the WEIGHT lamp will be lit. When neither lamp is illuminated, the scale is in the COUNT mode and the displayed value is the number of pieces on the scale.

Upon selecting a special service (except Special Delivery) and entering an

AMOUNT if applicable, the MS-8 will display:

FEE=

momentarily followed by a brief display of the fee AMOUNT.

A long error tone will issue and may be accompanied by the display:

Error

whenever an invalid key is pressed or an entered value is incorrect.

Negative Weight:

If the rate is displayed and the scale weight goes negative, the display will show:

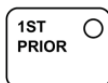
-nEG-

If the unit is in the WEIGHT DISPLAY mode and the scale weight goes negative, a negative weight will be displayed. If the weight is greater than -15.9 oz, then the -oF- overflow message will be displayed.

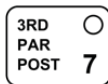
Ten Minute Power Down:

If the weight display remains stable and no keys are pressed for ten minutes, the display and LED's will be turned off. Pressing the WEIGHT/ZERO key will turn the display and LED's back on. The unit will be in the WEIGHT DISPLAY mode.

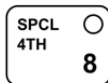
KEYPAD DESCRIPTION



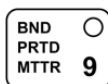
Selects First Class and Priority services.



Selects Third Class and Parcel Post services.



Selects Special Fourth Class service.



Selects Bound Printed Matter service.

KEYPAD DESCRIPTION, Cont.



Selects First Class Presort, First Class ZIP +4 or First Class Presort/ZIP +4 services. Press this key repeatedly to select one of the three desired.



Selects Express Post Office to Addressee service.



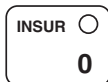
Selects International Air or Surface Letter, Parcel or Regular Printed Matter services. Press this key repeatedly to select one of the six services.



Selects the Certified special service for domestic service or Certificate of Mailing for international.



Selects the Registered special service.



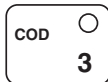
Selects Insurance special service.



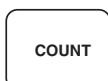
Selects Special Delivery special service.



Selects Return Receipt ("Time of Mailing") special service.



Selects Collect on Delivery special service.



Selects the COUNT function when the scale is in the weight only mode (WEIGHT lamp illuminated). When first pressed, the display will prompt:

Add =

Place a known quantity of pieces (letters, etc.) onto the scale platform, key in the number and press the ENTER key. The MS-8 will compute the "piece weight" and continuously display the number of pieces as they are added or removed from the scale. If the handling charge feature has been activated, press this key to display the net amount. It is also used to disable the power on default service. Refer to the Default Service Selection for details.



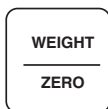
Press to transmit the displayed postage amount to an attached postage meter. If, during Setup and Calibration, the letters option was selected, the postage meter will set. If the parcels option was selected, the meter will set and a tape printed. If the letters and parcels option was selected, the display will prompt:

LtrP

Press 0 if a tape is to be printed (a parcel) or press 1 if no tape is needed (letter).

If there is motion on the scale and the SET METER key is pressed, the unstable message will be displayed, a long beep will be heard and no data will be transmitted.

KEYPAD DESCRIPTION, Cont.



When the scale is displaying a rate (\$ RATE lamp is lit), pressing this key will change the display to show weight (WEIGHT lamp will illuminate). If the display is showing weight, pressing this key will zero the weight display (to 0 0.00). This key is also used to turn the scale back on when in the sleep mode.



Press as the last key when entering a 1-digit zone or an AMOUNT less than 5 digits.

NOTE: When not key-entering a required value, press this key to change the current ZIP, zone, or country code.

DEFAULT SERVICE SELECTION

While connecting the MS-8 to power, press and hold down the key for the desired “default” service. The available services are:

1ST PRIOR	PREST ZIP+4
3RD PAR POST	EXP PO-AD
SPCL 4TH	INTL
BND PRTD MTTR	

When PREST ZIP+4 or INTL is the desired default, hold down these keys. The MS-8 will sequence through all possible selections. Release the key when the desired indicator is lit for the default service.

This default service will be automatically selected each time the scale is powered on and each time an item is removed from the scale and the weight reaches zero.

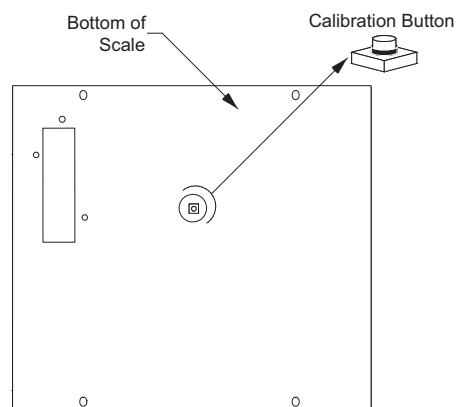
This default service can be changed as desired by repeating the steps above. The default service can be disabled by pressing and holding the COUNT key while connecting the power supply to the scale.

SETUP AND CALIBRATION

This scale was calibrated at the factory and should not require adjustment. In addition to calibration, the ability to select certain options is provided.

Remove power from the scale. Turn the MS-8 upside down so that the instrument is resting on the scale platform. Locate the small circular opening on the bottom surface and locate the push button recessed within. While pressing the button, reconnect power to the scale. Release the button and place the MS-8 right side up. The display will prompt:

Press the 1 key to perform scale calibration or press the 0 key to skip calibration and proceed to option setup. If calibration is selected, the display will prompt:



SETUP AND CALIBRATION, Cont.

Place 8 pounds of calibrated weight onto the scale platform and press ENTER. After a short delay, display will prompt:

UnLod

Remove the weights and press ENTER. Calibration is completed.

SELECTION OF OPTIONS

The next display is for the selection of options which is performed by setting a switch to 1 or 0 (on or off respectively). Switches are presented five at a time and displayed as:

00000

5 4 3 2 1

The switches are numbered right to left as shown in the example.

Switch no. 1 will be flashing. Press the 1 key to set that switch “on” or press the 0 key to set it “off.” Switch no. 2 will then flash and the sequence repeats for all five. The options assigned to each switch are as follows:

SWITCH	OPTION when “on”
1	Postage meter operation is for letters only.
2	Postage meter operation is for parcels only.
3	0=Postnet 1=Hasler
4	0=2 decimal Hasler 1=3 decimal Hasler
5	unused-set to 0

Note: When both switches 1 and 2 are on, the scale will prompt *LEP*. When both switches are 0, the port is inactive. After setting switch no. 5 (or pressing ENTER after setting less than all 5), the MS-8 will display:

Cnt?

Press 0 to disable or 1 to enable the COUNT feature. Note: If the COUNT key is pressed while the feature is disabled, the error tone will sound. This setup parameter is not displayed during keyboard setup/review.



IMPORTANT: In Legal for Trade applications, the COUNT feature must be disabled.

The display will then change to: *HdLGP*

Answering Yes to this prompt enables the Mark Up feature. Rates in the MS-8 may be marked up by either percentage or flat amount. Note: Scales interfaced to postage meters will only set the meter for the actual postage amount. After the prompt *HdLGP*, press the 1 key for Yes. The display then prompts: *PEP*. Press 1 if the mark up is to be a percentage of the postage amount or press 0 if the mark up is to be a flat fee amount. Enter the percentage or flat fee amount and press the ENTER key. Note: The current handling charge will not be displayed. The unit will then display *done*. This concludes Setup and Calibration. Remove power from the scale, wait five seconds then reapply power. The MS-8 is ready for normal operation.

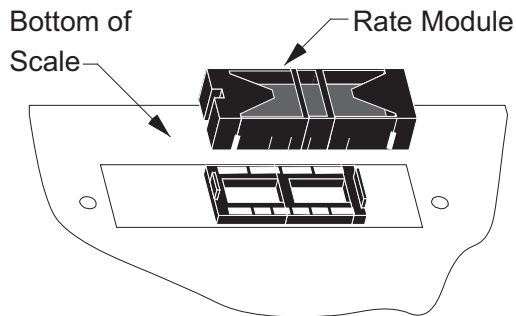
Setup/Review:

Hold down the ENTER key while applying power to the scale. A lamp test will be performed followed by the current soft switch values. Refer to the Selection of Options section for details on the soft switch. After changing the soft switches, or if no changes are needed, press the ENTER key. The unit

SETUP AND CALIBRATION, Cont.

will prompt *HdLLP*. Refer to the Selection of Options section for details on the Mark Up feature. After changing the Mark Up, or if no changes are needed, press the ENTER key. The unit will display *done*. Power the scale off; wait five seconds; then power the scale back on. Check that the correct marked up amount is displayed. The MS-8 will begin normal operation.

RATE MODULE INSTALLATION



Remove power from the MS-8. Turn the MS-8 upside down so that the instrument is resting on the scale platform. Locate a rectangular cover plate on the bottom of the instrument and loosen the two screws. Remove the cover plate and note the position of the current rate module. Pulling outward, remove the rate module. Install the new rate module, making certain that the notch in the end of the module matches the notch in the end of the socket in the MS-8. Insure that the module is firmly seated in the socket. Replace the cover plate and tighten both retaining screws.

TROUBLESHOOTING GUIDE

Customer Service is our first priority. However, before calling for service, review the following:

1. Is the power cord fully inserted into the MS-8?
2. Is the power module plugged into the wall outlet and is the outlet providing proper AC power?
Try another electrical appliance in the outlet to verify power.
3. Has the Rate Module been properly installed and fully seated?
4. Have proper operation procedures been followed?

DO NOT TRY TO REPAIR THIS SCALE YOURSELF!

- Unplug the power cord and contact your dealer or scale technician.
- Follow all warnings and instructions marked on the scale and listed in this manual.
- Remove power from the scale before cleaning.
- Do **NOT** use this equipment near water.
- Do **NOT** push objects of any kind into equipment openings.

USPS COUNTRY CODE NUMBERS

Country Code Numbers

101	Afghanistan
102	Albania
103	Algeria
104	Andorra
105	Angola
296	Anguilla
106	Antigua / Barbuda
107	Argentina
300	Armenia
165	Aruba
108	Ascension

Country Code Numbers

109	Australia
110	Austria
301	Azerbaijan
111	Azores
112	Bahamas
113	Bahrain
114	Bangladesh
115	Barbados
116	Belgium
117	Belize
118	Benin

USPS COUNTRY CODE NUMBERS, Cont.

Country Code Numbers

119	Bermuda
120	Bhutan
121	Bolivia
122	Botswana
123	Brazil
297	British Virgin Islands
124	Brunei
125	Bulgaria
126	Burkina
127	Burma
128	Burundi
302	Byelarus
129	Cameroon
130	Canada
131	Cape Verde
132	Cayman Island
133	Central African Republic
134	Chad
135	Chile
136	China
137	Colombia
138	Comoros
139	Congo
140	Corsica
141	Costa Rica
190	Cote d'Ivoire (Ivory Coast)
312	Croatia
142	Cuba
143	Cyprus
144	Czechoslovakia
145	Denmark
146	Djibouti
147	Dominica
148	Dominican Republic
149	East Timor
150	Ecuador
151	Egypt
152	El Salvador
153	Equatorial Guinea
154	Estonia
155	Ethiopia
156	Faroe Islands
157	Falkland Islands
158	Fiji
159	Finland
160	France
161	French Guiana
162	French Polynesia
163	Gabon
164	Gambia
303	Georgia, Republic of
166	Germany, Federal Republic of
167	Ghana

Country Code Numbers

168	Gibraltar
169	Great Britain & Northern Ireland
170	Greece
171	Greenland
172	Grenada
173	Guadeloupe
174	Guatemala
175	Guinea
176	Guinea Bissau
177	Guyana
178	Haiti
179	Honduras
180	Hong Kong
181	Hungary
182	Iceland
183	India
184	Indonesia
185	Iran
186	Iraq
187	Ireland
188	Israel
189	Italy
191	Jamaica
192	Japan
193	Jordan
194	Kampuchea (Cambodia formerly)
304	Kazakhstan
195	Kenya
196	Kiribati
197	Korea, (Democratic Peoples Republic)
198	Korea, Republic of (South Korea)
199	Kuwait
305	Kyrgyzstan
200	Lao
201	Latvia
202	Lebanon
204	Lesotho
205	Liberia
206	Libya
203	Liechtenstein
207	Lithuania
208	Luxembourg
209	Macao
313	Macedonia, Republic of
210	Madagascar
211	Madeira Islands
212	Malawi
213	Malaysia
214	Maldives
215	Mali
216	Malta
217	Martinique
218	Mauritania

USPS COUNTRY CODE NUMBERS, Cont.

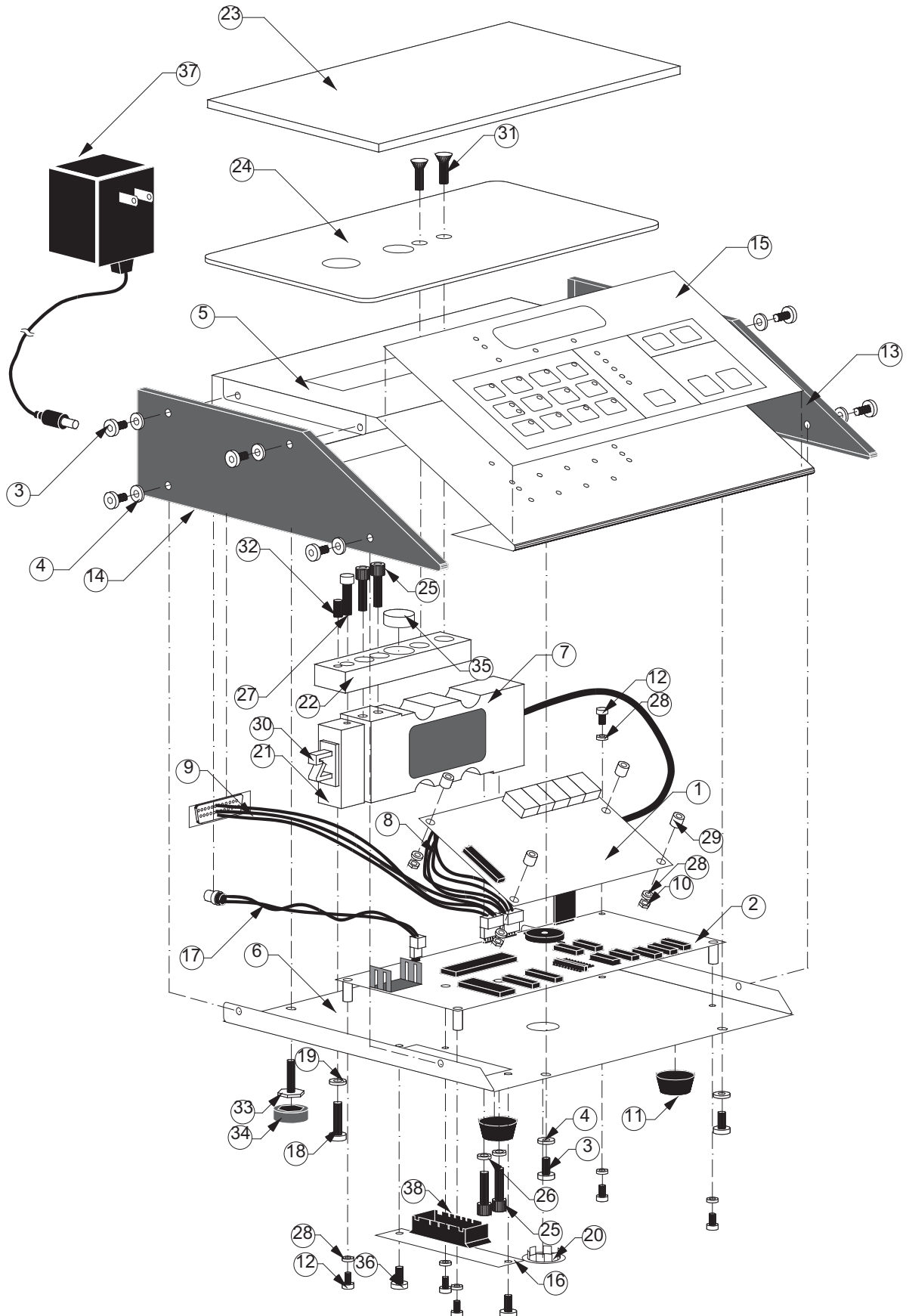
Country Code Numbers

219	Mauritius
220	Mexico
306	Moldova
221	Mongolia
314	Montenegro
298	Montserrat
222	Morocco
223	Mozambique
307	Namibia
224	Nauru
225	Nepal
226	Netherlands
227	Netherlands Antilles
228	New Caledonia
229	New Zealand
230	Nicaragua
231	Niger
232	Nigeria
233	Norway
234	Oman
235	Pakistan
236	Panama
237	Papua New Guinea
238	Paraguay
239	Peru
240	Philippines
241	Pitcairn Island
242	Poland
243	Portugal
244	Qatar
245	Reunion Island
246	Romania
282	Russia
247	Rwanda
248	St. Christopher & Nevis
249	St. Helena
250	St. Lucia
251	St. Pierre & Miquelon
252	St. Vincent & Grenadines
291	San Marino, Republic of
253	Sao Tome & Principe
254	Saudi Arabia
255	Senegal
315	Serbia
256	Seychelles
257	Sierra Leone
258	Singapore
316	Slovenia
259	Solomon Islands
260	Somalia
261	South Africa
262	Spain

Country Code Numbers

263	Sri Lanka
264	Sudan
265	Surinam
266	Swaziland
267	Sweden
268	Switzerland
269	Syria
270	Taiwan
308	Tajikistan
271	Tanzania
272	Thailand
273	Togo
274	Tonga
275	Trinidad & Tobago
276	Tristan da Cunha
277	Tunisia
278	Turkey
309	Turkmenistan
279	Turks & Caicos Islands
280	Tuvalu
281	Uganda
310	Ukraine
283	United Arab Emirates
284	Uruguay
311	Uzbekistan
285	Vanuatu
286	Vatican City
287	Venezuela
288	Vietnam
299	Wallis & Futuna Islands
289	Western Samoa
290	Yemen, Republic of
292	Yugoslavia
293	Zaire
294	Zambia
295	Zimbabwe

PARTS LIST



PARTS LIST

1	8540-C311-0A	Display Board	1
2	8540-D310-0A	Controller Assembly	1
3	6021-1257	Truss Head Machine Screw 08-32 x .375	12
4	6024-1000	Lock Washer Int Tooth #8	10
5	8540-C308-0A	Top Cover Weldment Assembly	1
6	8540-C309-0A	Bottom Tray Weldment Assembly	1
7	2950-C009-3A	SPL-25 Assembly for MS-8	1
8	8541-B226-0A	Display Cable Assembly	1
9	8540-B319-0A	Serial Cable Assembly	1
10	6013-0039	Nut Hex 6-32 Z/Plated	4
11	6540-0032	Rubber Foot	2
12	6021-0654	Machine Screw 06-32 x .250	6
13	8540-D302-08	Right Formed End Cap	1
14	8540-D301-08	Left Formed End Cap	1
15	8540-D300-0A	Keypad	1
16	8540-B305-08	Removable Panel	1
17	8540-B326-0A	Power Cable Assembly	1
18	6021-1117	Machine Screw 10-32 x .750	1
19	6024-0033	Lock Washer #10	1
20	6610-1165	Access Hole Plug	1
21	8540-B128-08	Overload/Underload Stop	1
22	8540-B306-08	Spacer Block	1
23	8540-D317-08	Commodity Tray	1
24	8540-C318-08	Weighbridge	1
25	6021-1496	Socket Head Cap Screw 25-28 x .75	4
26	6024-0039	Lock Washer 1/4	2
27	6021-1030	Socket Head Cap Screw 10-32 x .750	1
28	6680-0004	Star Washer #6	9
29	6680-0045	Spacer 9/23 OD x .143 ID x .25 Long	4
30	6610-1164	Cable Clip	1
31	6021-1082	Flat Head Machine Screw 10-32 x .500	2
32	6021-0990	Half-dog Set Screw 10-32 x .375	1
33	8540-B324-08	Foot	2
34	6540-1012	Snap-on foot	2
35	6690-0001	Level "Bulls Eye"	1
36	6021-0875	Round Head Machine Screw 8-32 x .375	2
37	728R120	Power Converter	1
38	8540-B325-0A	MS-8 Rate Module	1

Addendum for MS-8 Rate Module Installation

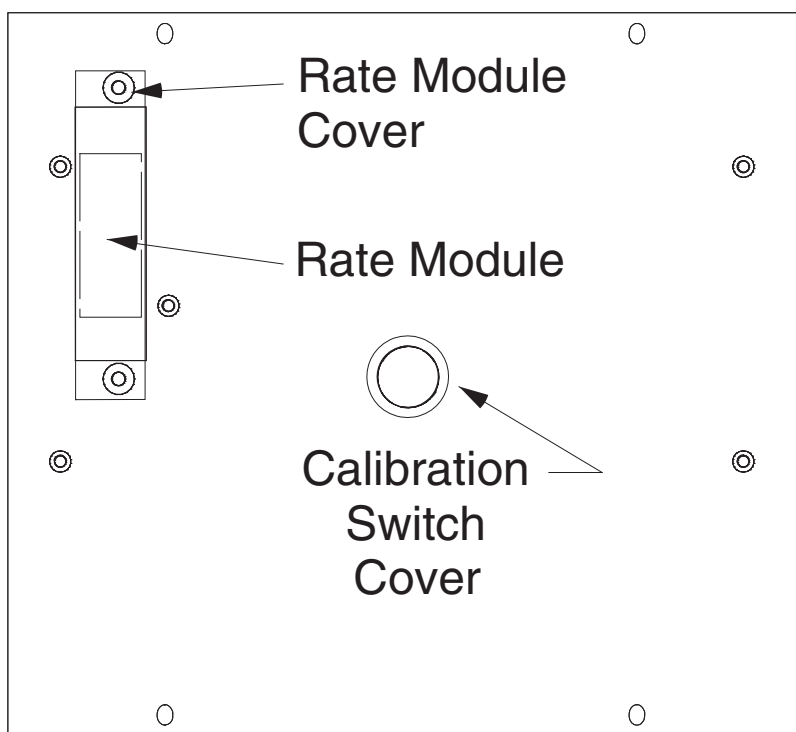
Unpacking

The rate module for the MS-8 is **NOT** installed when shipped from the factory. Rather it is packed separately in a static bag and placed in with the packing material of the scale. Make certain to locate the rate module shipped with the scale before storing the packing material and shipping carton.

Installation

The rate module contains the postal rates for your specific zip code area as well as the software program for the MS-8. To install this module, turn the scale upside down so that the instrument is resting on the scale platform. Locate the rectangular cover plate on the bottom of the scale and loosen the two screws (see Figure A). Remove the cover plate and note the size and number of slots in the rate module socket (one side of the rate module socket has fewer, but larger slots than the other side). The rate module may now be inserted into the socket found beneath the cover. Make certain that the tabs in the side of the rate module match the slots in the socket and the notch on the rate module is towards the rear of the scale. **Note: The module can only be installed when positioned correctly.** Insure that the module is fully seated in the socket by pressing firmly until you hear the module snap in place in the socket. Replace the cover plate and tighten both retaining screws.

Front of Scale



Rear of Scale Figure A



Model MS-8 Rate Change

Installation Instructions

The instructions for replacing the MS-8 Rate EPROM have changed. Please read the new instructions below. Failure to do so may damage the rate chip and void any warranties.

NOTE! The plastic carrier for the Rate EPROM has been discontinued by the manufacturer and is no longer available. Therefore it is very important that you carefully follow the new instructions for replacing the rate chip in your Rate Module.

Tools Required: Small Screwdriver

1. Disconnect power cord from outlet.
2. Remove the top tray and turn the MS-8 over so that it rests on the scale platform with the front of the scale toward you.
3. Locate the rectangular Rate EPROM Cover plate and remove the two screws and the cover plate to expose the Rate Module.



For Scales Purchased **BEFORE** November 2004

4. To remove the rate EPROM, grasp the plastic carrier at both ends and pull straight up.



5. Turn the rate EPROM carrier over with the notch towards the top and so that the pins of the EPROM are visible and grasp the carrier in both hands.

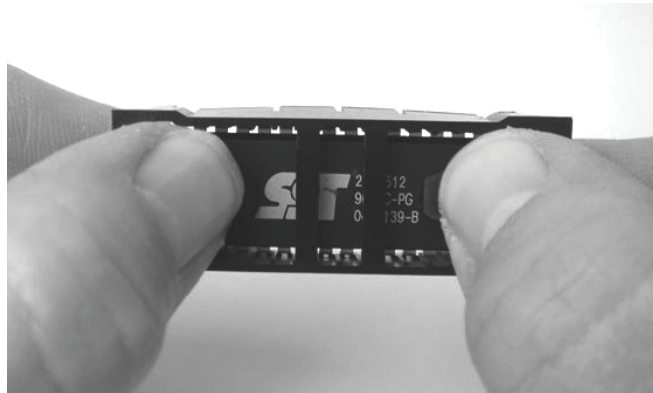
6. Using your thumbs and starting at the end with the notch, **gently** pry the sides of the rate EPROM carrier apart while pushing up against the old rate EPROM with your fingers

7. Continue along both sides of the carrier until the pins are flush with the sides of the carrier. You should hear a slight clicking (snapping) sound as the rate EPROM is loosen in the carrier.

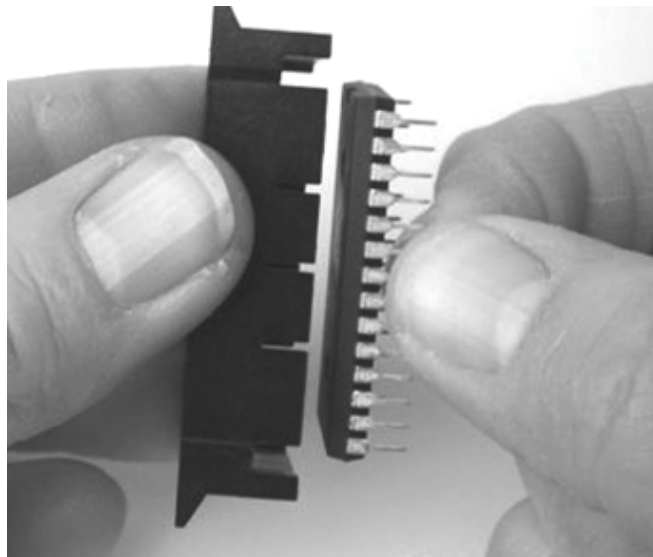


8. Turn the carrier over (pins away from you)

9. **Gently** apply pressure with your thumbs on the two triangle shaped portions of the carrier to push the rate EPROM out of the carrier.



10. Lift the old rate EPROM away from the carrier and place set it aside.



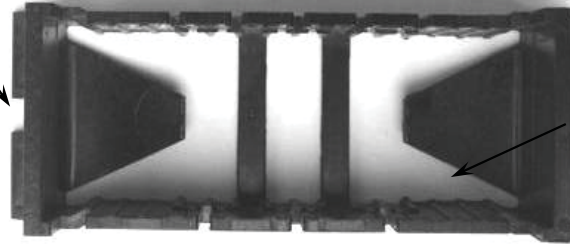
11. Turn the rate module carrier over, noting the location of the notch.

12. Remove the new Rate EPROM from the packaging and note the notch in the end

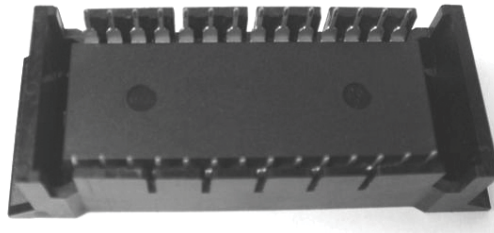
NOTCH



13. Aligning the notch in the rate EPROM with the notch in the carrier and insuring that the EPROM is centered in the carrier, gently insert the new rate EPROM into the carrier.



14. Push the new rate EPROM down into the carrier until the pins on both sides of the EPROM are below the edge of the carrier.



NOTCHED END

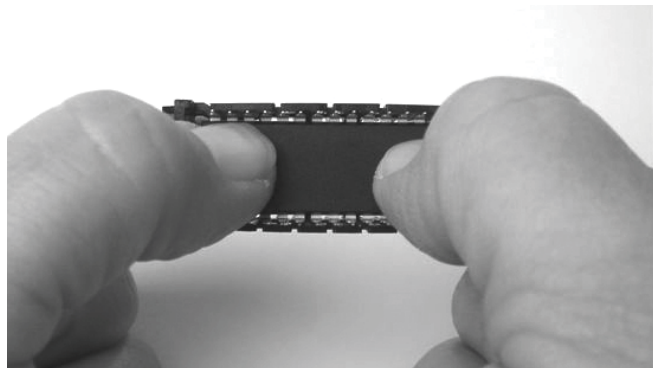
15. Place the rate EPROM carrier back into the scale making certain the notch in the end of the carrier matches the notch in the socket (the rate EPROM carrier may only be inserted in one direction).

16. Seat the rate module firmly in the socket.

17. Replace the rate module cover.

18. Turn scale right side up and reconnect the power cord.

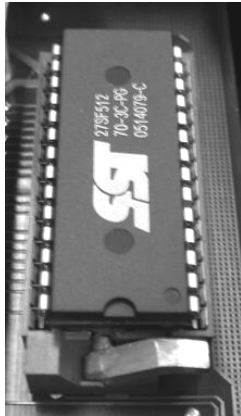
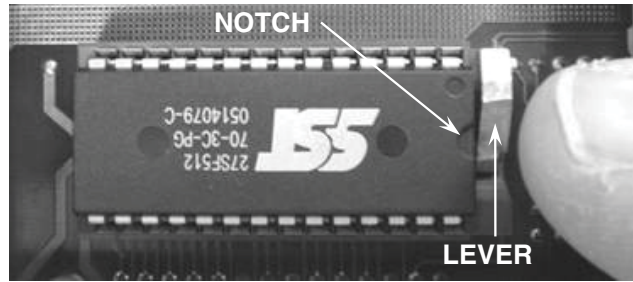
19. Check scale for proper operation.



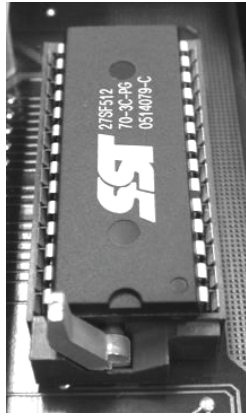
For Scales Purchased **AFTER** November 2004

20. Follow steps 1 through 3 to gain access to the Rate EPROM.

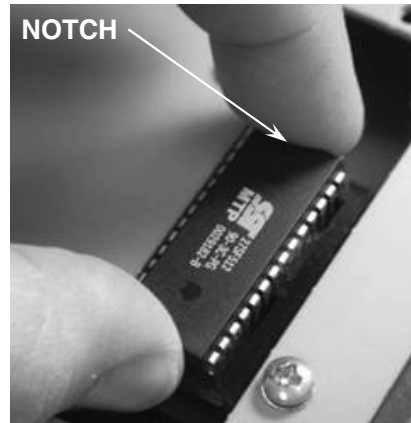
21. Open the Rate EPROM socket by lifting the lever on the end of the socket. Before removing the old Rate EPROM, note the notch at the end of the EPROM is towards the lever.



LEVER CLOSED



LEVER OPENED



REAR OF SCALE ↑

22. Remove the old Rate EPROM by pulling it straight up and out of the socket as shown.

23. Remove the new Rate EPROM from the packaging and note the notch in the end. Place the new Rate EPROM in the socket with the notch toward the lever. Be careful not to bend any pins on the Rate EPROM

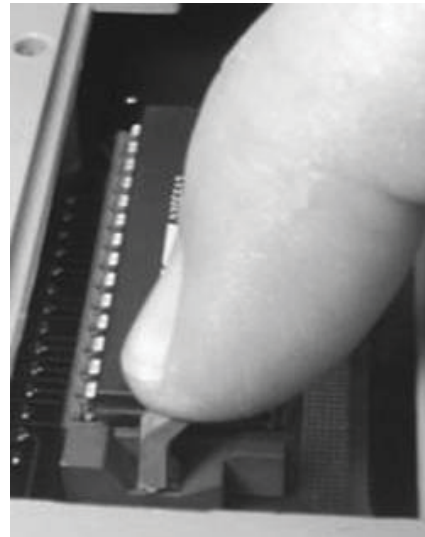
24. Check that the EPROM is inserted fully by gently pressing down on the top of the EPROM.

25. Close the socket by gently pushing down on the socket lever until it is in the position it was prior to opening.

26. Replace the rate module cover.

27. Turn scale right side up and reconnect the power cord.

28. Check scale for proper operation.



NOTICE: Rate Changes are warranted against manufacturing defects for 30 days from the date the order was shipped. Additional changes in any carrier's rates and/or services after the effective date are not covered under warranty. User assumes responsibility of ensuring that rates and services are correct. DETECTO and Cardinal Scale Manufacturing Company's liability is limited to replacement of rate change firmware.

Addendum to Detecto Mailing Scales, MS-4, MS-8, MS-15, MS-30, MS-100 and MS-1600

COUNTRY CODE NUMBERS

This addendum lists the Country Code numbers used by the Detecto Mailing Scales listed above to work in accordance with the new International mail services implemented by the U.S. Postal Service effective May 14, 2007. Consult your scale operation manual for additional operation information. For additional information about the new International mail services and mail-piece eligibility consult your local post office or the International Mail Manual.

A

101 - Afghanistan
102 - Albania
103 - Algeria
104 - Andorra
105 - Angola
296 - Anguilla
106 - Antigua & Barbuda
107 - Argentina
300 - Armenia
165 - Aruba
108 - Ascension
109 - Australia
110 - Austria
301 - Azerbaijan

B

112 - Bahamas
113 - Bahrain
114 - Bangladesh
115 - Barbados
302 - Belarus
116 - Belgium
117 - Belize
118 - Benin
119 - Bermuda
120 - Bhutan
121 - Bolivia
292 - Bosnia-Herzegovina
122 - Botswana
123 - Brazil
297 - British Virgin Islands
124 - Brunei Darussalam
125 - Bulgaria
126 - Burkina Faso
127 - Burma (Myanmar)
128 - Burundi

C

194 - Cambodia
129 - Cameroon
130 - Canada
131 - Cape Verde
132 - Cayman Islands
133 - Central African Republic
134 - Chad
135 - Chile
136 - China
137 - Colombia
138 - Comoros
139 - Congo, Democratic Republic of the
293 - Congo, Republic of the
141 - Costa Rica
190 - Cote d'Ivoire (Ivory Coast)
312 - Croatia
142 - Cuba
143 - Cyprus
144 - Czech Republic

D

145 - Denmark
146 - Djibouti
147 - Dominica
148 - Dominican Republic

E

150 - Ecuador
151 - Egypt
152 - El Salvador
153 - Equatorial Guinea
318 - Eritrea
154 - Estonia
155 - Ethiopia

F

157 - Falkland Islands
156 - Faroe Islands
158 - Fiji
159 - Finland
160 - France
161 - French Guiana
162 - French Polynesia

G

163 - Gabon
164 - Gambia
303 - Georgia, Republic of
166 - Germany
167 - Ghana
168 - Gibraltar
169 - Great Britain & Northern Ireland
170 - Greece
171 - Greenland
172 - Grenada
173 - Guadeloupe
174 - Guatemala
175 - Guinea
176 - Guinea-Bissau
177 - Guyana

H

178 - Haiti
179 - Honduras
180 - Hong Kong
181 - Hungary

I

182 - Iceland
183 - India
184 - Indonesia
185 - Iran
186 - Iraq
187 - Ireland (Eire)
188 - Israel
189 - Italy

J

191 - Jamaica
192 - Japan
193 - Jordan

K

304 - Kazakhstan
195 - Kenya
196 - Kiribati
197 - Korea, Democratic People's Republic
of (North)
198 - Korea, Republic of (South)
199 - Kuwait
305 - Kyrgyzstan

L

200 - Laos
201 - Latvia
202 - Lebanon
204 - Lesotho
205 - Liberia
206 - Libya
203 - Liechtenstein
207 - Lithuania
208 - Luxembourg

M

209 - Macao
313 - Macedonia, Republic of
210 - Madagascar
212 - Malawi
213 - Malaysia
214 - Maldives
215 - Mali
216 - Malta
140 - Marshall Islands
217 - Martinique
218 - Mauritania
219 - Mauritius
220 - Mexico
111 - Micronesia
306 - Moldova
221 - Mongolia
298 - Montserrat
222 - Morocco
223 - Mozambique

N

307 - Namibia
224 - Nauru
225 - Nepal
226 - Netherlands
227 - Netherlands Antilles
228 - New Caledonia
229 - New Zealand
230 - Nicaragua
231 - Niger
232 - Nigeria
233 - Norway

O

234 - Oman

P

235 - Pakistan
236 - Panama
237 - Papua New Guinea
238 - Paraguay
239 - Peru
240 - Philippines
241 - Pitcairn Island
242 - Poland
243 - Portugal

Q

244 - Qatar

R

245 - Reunion
246 - Romania
282 - Russia
247 - Rwanda

S

248 - St. Christopher (St Kitts) & Nevis
249 - St. Helena
250 - St. Lucia
251 - St. Pierre & Miquelon
252 - St. Vincent & Grenadines
291 - San Marino
253 - Sao Tome & Principe
254 - Saudi Arabia
255 - Senegal
315 - Serbia-Montenegro (Yugoslavia)
256 - Seychelles
257 - Sierra Leone
258 - Singapore
317 - Slovak Republic (Slovakia)
316 - Slovenia
259 - Solomon Islands
260 - Somalia
261 - South Africa
262 - Spain
263 - Sri Lanka
264 - Sudan
265 - Suriname
266 - Swaziland
267 - Sweden
268 - Switzerland
269 - Syrian Arab Republic (Syria)

T

270 - Taiwan
308 - Tajikistan
271 - Tanzania
272 - Thailand
273 - Togo
274 - Tonga
275 - Trinidad & Tobago
276 - Tristan da Cunha
277 - Tunisia
278 - Turkey
309 - Turkmenistan
279 - Turks & Caicos Islands
280 - Tuvalu

U

281 - Uganda
310 - Ukraine
283 - United Arab Emirates
284 - Uruguay
311 - Uzbekistan

V

285 - Vanuatu
286 - Vatican City
287 - Venezuela
288 - Vietnam

W

299 - Wallis & Futuna Islands
289 - Western Samoa

Y

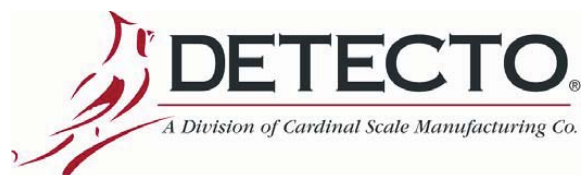
290 - Yemen

Z

294 - Zambia
295 - Zimbabwe

ADDENDUM FOR MANUALS:

8540-M412-O1 03/96
8540-M320-O1 Rev C 9/95
8540-M104-O1 Rev H 7/05
04/07



Technical Support: Ph: 866-254-8261 • techsupport@cardet.com



ADDENDUM to MS-8 MAILING SCALE OPERATION MANUAL

OPERATION CHANGES for Rev 4.2

This addendum explains changes in firmware Rev 4.2 to the operation of the MS-8 scale to work in accordance with the May 12, 2008 rate structure implemented by the U.S. Postal Service. For additional operation information, refer to the scales operation manual. Consult your local post office or www.usps.com for additional information about the rate structure, services and mail-piece eligibility.

DOMESTIC MAIL

Express Mail

With the exception of the flat-rate envelope (which is still priced based on weight alone), the Express Mail service is now a zone-based price service based on weight and distance.

This service uses the **EXP PO-AD/4** key and operates the same as the former Express Post Office to Addressee requiring the operator to enter a zip code to calculate the rate.

1. Place item on scale.
2. Press the **EXP PO-AD/4** key.
3. Using the numeric keys, enter a three-digit zip code.
4. The scale will then display the rate.

Bound Printed Matter Re-Instated

Beginning with version 4.2 of the firmware, the Bound Printed Matter Parcels (Nonpresorted) service has been re-instated in the MS-8 and the key for it (**BND PRTD MTTR/9**) enabled.

ADDENDUM FOR MANUAL:
8540-M320-O1 Rev C 9/95
05/08 Rev B

Continued on Back

OPERATION CHANGES for Rev 4.2, Cont.

INTERNATIONAL MAIL

Effective May 12, 2008, the First-Class International Mail service will use shaped-based pricing aligning it with the pricing structure used for domestic mail. The MS-8 scale supports the following new First-Class International Mail services:

First Class Mail International

Postcards, Letters, Flats and Packages weighing less than 3.5 oz

Large Envelopes (Flats) weighing over 3.5 oz and under 64 oz

Packages (Small Packets) weighing over 3.5 oz and under 64 oz

Postcards, Letters, Flats and Packages weighing less than 3.5 oz

1. Press the **INTL** key.
2. The scale will display three dashes _ _ _, turn on the AIR and LETTER lamps and flash the COUNTRY CODE? lamp.
3. Using the numeric keys, enter the three digit country code.
4. The display will show the country code briefly and turn on the \$ RATE lamp.
5. Place item on scale.
6. The scale will then display the First-Class Mail International rate.
7. If desired, press the **INTL** key again to view the Priority Mail International rate.

Large Envelopes (Flats) weighing over 3.5 oz and under 64 oz

1. Press the **INTL** key.
2. The scale will display three dashes _ _ _, turn on the AIR and LETTER lamps and flash the COUNTRY CODE? lamp.
3. Using the numeric keys, enter the three digit country code.
4. The display will show the country code briefly and turn on the \$ RATE lamp.
5. Place item on scale.
6. Press the **SET METER** key.
7. The scale will turn off the LETTER lamp and turn on the SURFACE lamp. The Large Envelopes (Flat) International rate will then be displayed.
8. If desired, press the **INTL** key to view the Priority Mail International rate.

Packages (Small Packets) weighing over 3.5 oz and under 64 oz

1. Press the **INTL** key.
2. The scale will display three dashes _ _ _, turn on the AIR and LETTER lamps and flash the COUNTRY CODE? lamp.
3. Using the numeric keys, enter the three digit country code.
4. The display will show the country code briefly and turn on the \$ RATE lamp.
5. Place item on scale.
6. Press the **SET METER** key.
7. The scale will turn off the LETTER lamp, turn on the SURFACE lamp and display the Large Envelopes (Flat) International rate.
8. Press the **SET METER** key again.
9. The scale will turn off the SURFACE lamp and turn on the BOUND PRINTED MATTER lamp. The Packages (Small Packets) International rate will then be displayed.
10. If desired, press the **INTL** key to view the Priority Mail International rate.

Weight Limit Automatic Service Selection

If First-Class Mail International (Postcards, Letters, Flats and Packages) is selected and the weight is over 3.5 oz, the scale automatically converts to the Large Envelopes (Flats) rate.

If any First-Class Mail International service is selected and the weight is over 64 oz, the scale will display **OVER**. Press the **INTL** key to select Priority Mail International and display the rate.

