

Mailing & Shipping Scales MS 15 / 30 / 100 / 1600 Operation Manual

INTRODUCTION

We wish to thank you for your purchase of our Mailing and Shipping 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.

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PRECAUTIONS

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



SERIAL NUMBER DATE OF PURCHASE PURCHASED FROM

RETAIN THIS INFORMATION FOR FUTURE USE

SPECIFICATIONS

USPS Services Supported

1st Class/Priority 3rd Class/Parcel Post Express Mail PO-PO Express Mail PO-Addressee 1st Class Presort/ZIP+4 International Air International Surface International Express Library Book **Bound Printed Matter** Certified Registered **Return Receipt** Insurance Special Delivery COD

Other Features

UPS Services Supported Ground 2nd Day 3 Day Next Day Air Next Day Letter International **Delivery Confirmation** Response Oversize **Declared Value** COD **Dimensional Weight** ZIP to Zone Conversion Manual Weight Entry Piece Count for Bulk Mail Full Numeric Keypad User Replaceable Rate Cartridge

Designed and Manufactured in the USA

Operating Temperature Range	32°F to 104°F
Power Requirements	110/115 VAC 50/60 Hz
Graduation SizeMS-15	15 lb x 0.05 oz
MS-30	0 - 30 lb x 0.1 oz
MS-100	0 - 99 lb 15.8 oz x 0.2 oz
MS-1600	0 - 99 lb 15.9 oz x .1 oz
Platform Size (Inches)	15.5" W x 8.75" D
Height	4 inches
Display Size and Type	

INSTALLATION

The instructions contained in this section should be read and understood prior to attempting to complete the installation.

Place the system in a stable, vibration-free location away from direct sunlight and away from any rapid moving air source. Make certain the power cords are stored out of the way of normal traffic.



CAUTION!!! - Do not place the scale on any unstable cart, stand, or table. The scale may fall, causing injury to the operator, and seriously damage the unit; or proper operation of the scale may be inhibited.

SHIPPING CLIPS and SCREW

The load cells are protected from damage in shipping by four (4) shipping clips under the four (4) overload springs and one shipping screw located on the bottom of the scale (see figure 1). Remove the clips, screw, and the warning label before using the scale and re-install them before transporting or shipping the scale. *Note: Hand tighten the shipping screw*.



CAUTION!!! Transporting or shipping the scale without the shipping clips and screw installed will void the load cell warranty.

LEVEL SCALE

Level the scale if necessary by adjusting the four legs on scale bottom, up or down, until the bubble in the level gage located on the scale housing centered as shown in figure 1. After level is achieved, lock legs in place by tightening lock nuts against the scale bottom.



Place stainless steel platform on weighbridge by aligning holes in weighbridge with pins located on bottom of platform.



Rate/Program Cartridge Installation

The Rate/Program Cartridge may have been shipped separate. If so, it must be installed in the instrument before beginning operation. This module is inserted into the cutout on the right side of the instrument as shown in Figure 2. Note that the label on the Rate/Program Module is on the bottom side and that the connector end of the Module is inserted into the opening in the instrument enclosure.

Insert the power cord plug into a grounded wall outlet. This completes the installation procedure.

POWER SUPPLY NOTE!

If an extension cord must be used, it should be a 3-wire fully grounded type. On Models requiring 220 VAC power, it is the responsibility of the customer to have the proper power cord plug installed which conforms to national electrical codes and local codes and ordinances.



To avoid electrical hazard DO NOT under any circumstances, cut, remove or bypass the power cord grounding prong.

SYSTEM SETUP

Before operation may begin it will be necessary to enter operational parameters into your MS15/MS30/MS100/MS1600. Once this data is entered, it will be retained in memory and used whenever necessary. If it is necessary to change this data at a later point in time, repeat this procedure.

Turn the MS15/MS30/MS100/MS160 on while pressing the ENTER key. The system will display: DETECTO MS15/MS30/MS100/MS1600 VX.X

and then change to

INSTALLED AT XXX

then change to

DEFAULT? (1/0) X

Where X is the current state of the default option (1=Yes, 0=No). The display asks whether you wish the system to automatically select the "USPS 1st Priority" mode of shipment on completion of any USPS transaction or the "UPS Ground" mode of shipment on completion of any UPS transaction. The default of service occurs when weight returns to zero.

The next display is:

COUNT OPTION?(1/0) X

The COUNT feature must be disabled in "Legal For Trade" applications. Press "1" to enable the COUNT key to operate, "0" to disable COUNT.

The next display is:

USPS HANDLING CHG

Pressing "0" to disable or "1" to enable the USPS handling charge. If enabled, the system will prompt for the method of charge:

PERCENT? (1/0)

Pressing "1" will establish a handling charge based on a percentage of the service charge, and the system will prompt for the percentage amount:

PERCENT =

Pressing "0" will establish a fixed amount to add to the service charge, and the system will prompt for the fixed amount:

AMOUNT =

The next display is:

UPS HANDLING CHG

Pressing "0" to disable or "1" to enable the UPS handling charge. If enabled, the system will prompt for the method of charge:

PERCENT? (1/0)

Pressing "1" will establish a UPS handling charge based on a percentage of the service charge, and the system will prompt for the percentage amount:

PERCENT =

Pressing "0" will establish a fixed amount to add to the service charge, and the system will prompt for the fixed amount: AMOUNT =

The next display is:

CLEAR ZIP?

Pressing "1" for yes will cause the ZIP code/zone to clear whenever the weight on the scale is zero. Press "0" for no to retain the last ZIP code entered.

When complete, the last display will be:

DONE

This completes system setup of the scale. Remove and reapply power to the unit. The scale is now completely ready for operation.

RATE UPDATES

When UPS or Postal Rates change and new software are provided, it will arrive in the Rate/Program cartridge. Remove old cartridge and replace as shown in figure 2.

Special UPS International rates have been added for Broward and Dade counties in Florida. Units operating in these counties must be specified during rate updates.

KEYPAD DESCRIPTION

The keypad is comprised of three sections each containing keys of similar function. These three sections are UPS Section, the USPS Section and the Function Section. Each time a key is pressed the scale will emit a short beep to signal receipt of the keystroke. As with any keypad, certain precautions in its use must be taken. Do not use sharp or pointed objects to press the keys. Use only your finger tip to press the desired key. The keypad should be cleaned only with a damp (not wet) cloth. Do not use abrasive cleaners, strong detergents or solvents to clean the keypad. Make certain to remove the power cord from the scale before cleaning the keypad.

MS-30 0-3ib x.1oz 5-30ib x.5oz	POUNDS OUNCE	SRATE	ZONE	ZIP	
USPS	EXP PO-AD	UPS GROUND Zrd DAY NEXT DAY DAY		FUNCTION	9 ZERO
Ist PS ZIP+4 CERT PEGIS	INS INTL SURF	RTL 3 DAY	COUNT SET METER	4 5	6 CE
RECT SPEC	BOOK BND C	DECL VALUE AOD UVER SZE	MAN WEIGHT 0	1 2	

Keypad Layout

UPS KEYPAD OPERATION

The UPS keypad section consists of eight keys located in the middle of the keyboard. These keys are used to select various modes of UPS service as well as some special services. Each of the keys will be described in detail throughout this section.

NOTE:

If an acceptable ZIP has not been entered into the system when a UPS mode is selected, the system will first display:

ZIP =

Enter the first 3 digits of the destination ZIP code.



UPS Keypad Layout

GROUND - Pressing this key selects UPS Ground Service. Selection is indicated by LED in the key. UPS now supports Comercial and Residential ground rate structures. The status for each displayed to the right of the zone number in the display. A small 'r' for residential and a small 'c' for commercial. Press the UPS Ground key until the desired rate is selected.

If UPS GroundTrac was enabled during scale setup, press the GROUND key until a 'T' appears on the display between the rate and zone, and a small 'c' is displayed between the zone and ZIP code for UPS GroundTrac rate. Press the GROUND key again to change to UPS GroundTrac Residential, a small 'r' will be displayed. Press the GROUND key again to return to standard UPS Ground.

2ND DAY - Pressing this key selects UPS Second Day Air Service and displays 1=Letter, 2=Package?. Press "1" to select the letter rate and press "2" to select package rate.

NEXT DAY - Pressing this key selects UPS Next Day Air Service and displays 1=Letter, 2=Packages?. Press "1" to select the letter rate and press "2" to select package rate.

If UPS 2nd Day or Next Day Air Dimensional Weight is to be used, place the parcel on the scale and press either the 2ND DAY or NEXT DAY key. Press the "2" key to select Package. The scale will display the actual weight and the shipping charges based on the actual weight.

Press the OVERSIZE key. The display will change to: LENGTH=

Enter the length of the package in inches, rounding up to the nearest whole inch. Press ENTER. The next prompt is:

HEIGHT=

Enter the height of the package in whole inches. Press ENTER for the next display: WIDTH=

Enter the width of the package in whole inches. Press ENTER. The dimensional weight will then be displayed.

If dimensional weight is to be used, the OVERSIZE key will be lit and the scale display will return to weight/rate mode. The shipping charges displayed will be the dimensional weight rate (note that the weight displayed at this time is still the actual weight of the package).

If actual weight is to be used, the OVERSIZE key will not be lit and the display will return to the actual weight rate.

If the package is too large as determined by the dimensional weight calculation, the display will flash OVER WEIGHT LIMIT and return to the actual weight rate. Note that this package is too large to ship via UPS.

3 DAY - Pressing this key selects UPS 3 Day Select Service (on older scales this key was used for Next Day Letter).

INTL - This key selects UPS International Service. After pressing the key the display will prompt for Canada, press "1" for yes or "0" for no. The display next prompts for the type of service, followed by a prompt for the UPS zone. Use the numeric keys to enter the zone.

NOTE: Consult UPS International Service Guide for zones.

UPS SPECIAL SERVICES

After pressing one of the mode keys previously described special services offered by UPS may then be selected. The following describes the special service keys:

DECL VALUE - This key selects Declared Value, UPS's Package Insurance. Pressing this key will cause the display to request the declared value dollar amount. The operator should then enter the declared value using the numeric keys followed by pressing the ENTER key. The system will calculate and momentarily display the declared value fee. The fee is then added to the current shipping charges and the total displayed on the display line. The Declared Value service may be turned off by pressing the key a second time. The LED key indicator is illuminated when declared value service is selected.

AOD - Pressing this key selects Delivery Confirmation Response special service. The SIGNATURE REQ'D? prompt is displayed and when "1" for YES or "0" for NO is selected, the next prompt, REPLAY ADDRESS? is displayed. When "1" for YES or "0" for NO is selected, the fee will be displayed for a moment, then added to the current shipping charges and the total rate displayed. To cancel the Delivery Conformation Response service, press the AOD key again.

OVERSIZE - This key selects the Oversize Package rate for UPS Ground and 3 Day Select and is used to calculate dimensional weight for UPS Next Day and Second Day Air Services. This key is also used for the non-standard surcharge on USPS First Class.

ADDITIONAL HANDING - Press the red SPEC key to add the UPS additional handling charge to the displayed shipping rate.

USPS KEYPAD OPERATION

This section describes the use of the keys contained in the US Postal Service (USPS) section of the keypad. Refer to above layout or to the actual keypad for the layout of these keys.

1ST/PRIOR - This key selects the First Class or Priority Mail service. The system automatically changes from First Class to Priority Mail when the weight exceeds the limit for First Class. The LED key indicator is illuminated when 1st/PRIOR service is selected.



USPS Keypad Layout

3RD/PCR PST - This key selects the Third Class or Parcel Post (Fourth Class) service. System selects the Third Class rate unless the weight of the item exceeds the Third Class limit. In this instance the Fourth Class or Parcel Post rate will be selected automatically. If the weight is within the range where either Third Class or Parcel Post could be used, the display will prompt: USE 4TH CLASS? (1/0)

Press "1" for the Fourth Class rate or press "0" for the Third Class rate. Note: When calculating Fourth Class rates, the scale automatically calculates the BMC discounted rate for qualifying ZIP codes. To calculate the non-discounted rate enter the destination zone number. For "Local" use zone 0. The LED key indicator is illuminated when 3rd/PCR PST service is selected.

EXP PO-PO - This key selects Express Mail Post Office to Post Office service. The LED key indicator is illuminated when EXP PO-PO service is selected.

EXP PO-AD - This key selects Express Mail Post Office to Addressee service. The LED key indicator is illuminated when EXP PO-AD service is selected.

INTL AIR - This key selects the international air rates listed by the USPS. Pressing this key causes the display line to show: EXPRESS (1/0). Press "1" for International Express Service. The display will show: 1=ON DEMAND, 2=CUSTOM. Press "1" to select Express On Demand Service or press "2" for Express Custom Service. The display will then prompt for Country Code. If "0" was pressed at the EXPRESS 1/0 prompt, the display will change to: 1=LTR, 2=PRCL, 3=PTDMTR or 4=SM PACKET? Press "1" to select LETTER mode, "2" for PARCEL POST mode, "3" for PRINTED MATTER mode or "4" for SMALL PACKET mode.

If LETTER, PARCEL POST or SMALL PACKET is selected, the display prompts "COUNTRY CODE=" (see the Country Code section of this manual for a list of these country code numbers). Enter the country code number, causing the system to momentarily display the country's name.

The rate is then calculated and displayed for the destination country, based on the weight of the item being mailed. The country code for the selected country will be shown continuously in the ZIP section of the display line.

If a "3" is selected for PRINTED MATTER, the display line will show: 1=REG, 2=BK, 3=PER?

Press "1" to select REGULAR PRINTED MATTER mode, "2" for BOOKS and SHEET MUSIC mode, "3" for PUBLISHER'S PERIODCALS mode. The display line will then show "COUNTRY CODE=." Proceed as described under the section for letter or parcel post modes.

1ST-PS/ZIP+4 - This key selects either the Presort, ZIP+4 or both discounts for First Class mail meeting the requirements defined by the USPS. Pressing this key causes the display to show: 1=PRESORT, 2=ZIP+4. If "1" is pressed, the display changes to: 1=PST, 2=ZIP+4, 3=3 DIGIT. The operator selects the Presort discount by pressing the appropriate key. When PST, ZIP+4 or 3 DIGIT discounts are added to the USPS Priority mail function, the price will be displayed in 1/10 of a penny (99.999). All other functions will display in the traditional currency format.

When using presorted USPS 1st Class Mail it is the responsibility of the operator to insure the mailing meets applicable Postal Service regulations of presorted mail. All ZIP+4 mailings must be 2.5 oz or less, if more the following error message will be displayed: OVER WEIGHT LIMIT.

CERT - This key selects the USPS Certified Mail. The charge for this service will be displayed momentarily, and then added to the displayed rate and the total shown. This service may be turned off and its fee removed from the total charge by pressing the key again. The LED key indicator is illuminated when CERT service is selected.

REGIS - This key selects USPS Registered Mail. Pressing this key after selecting a compatible class of service will cause the system to ask for the dollar indemnity amount for the item to be registered by displaying "AMOUNT =" in the display line. The operator enters the required amount using the numeric keys and pressing ENTER. The system will then prompt: INSURANCE? Y

Press "1" (or ENTER) for YES or "0" for NO.

The fee for registration will appear momentarily, then be added to the displayed rate and the total shown in the display line. This service may be cancelled and the fee removed from the total charge by pressing this key again. The LED key indicator is illuminated when REGIS service is selected. If insurance was selected, the system will illuminate the insurance key.

NOTE: If Insurance is already active (not associated with Registered) prior to selecting the Registered service, the REGISTERED key will not be accepted. If Registered is active, the INSURANCE key will not be accepted.

INS - This key selects insurance for the item to be mailed. Pressing this key causes the display line to indicate "AMOUNT =". The operator enters the insurance amount and presses ENTER. The fee for the insurance is displayed momentarily and added to the displayed rate. The LED key indicator is illuminated when INS service is selected.

INTL SURF - This key selects the International surface rates listed by the USPS. Pressing this key causes the display line to show: 1=PRCL, 2=PTDMTR, 3=SM PACKET?

Press "1" to select PARCEL POST mode, "2" for PRINTED MATTER mode or "3" for SMALL PACKET mode.

If PARCEL POST or SMALL PACKET is selected, the display line will show "COUNTRY CODE=" which asks for the country code number assigned to the destination country (see the Country Code section of this manual for a list of these country code numbers). The operator enters the country code number, causing the system to momentarily display the country's name. The rate is then calculated and displayed for the destination country based on the weight of the item being mailed. The country code for the selected country will be shown continuously in the ZIP Section of the display line.

If a "2" is selected for PRINTED MATTER, the display line will show: 1=REG, 2=BK, 3=PER?

Press "1" to select REGULAR PRINTED MATTER mode, "2" for BOOKS and SHEET MUSIC mode, "3" for PUBLISHER'S PERIODICALS mode. The display line will then show "COUNTRY CODE=" Proceed as described under the section for parcel post or small packet modes.

RET RECPT - This key selects USPS Return Receipt for certified or registered items. For domestic modes, pressing this key will cause the display to ask for the specific type of receipt requested by showing "WHERE (1) OR WHEN (2)?." The operator should enter either a "1" to select where or enter a "2" to select when. For international modes, "RETURN RECEIPT WHEN" is automatically selected. After selection has been made, the applicable fee will be displayed momentarily and added to the displayed rate. Note that pressing the RET RCPT key a second time will clear the return receipt request and remove its associated fee from the charge shown. The LED key indicator is illuminated when RET RCPT service is selected.

SPEC - This key selects USPS Special Delivery. The fee for special delivery will be shown momentarily, then added to the current postage and the total charge displayed. The LED key indicator is illuminated when SPEC service is selected. Also used for UPS Additional Handling Charge.

LIBRAY - This key selects the Library class rates for mail meeting the requirements set by the USPS. The LED key indicator is illuminated when LIBRAY service is selected.

BOOK - This key selects Book class rates for mail meeting the requirements set by the USPS. The LED key indicator is illuminated when BOOK service is selected.

BND PRNT MTR - This key selects Bound Printed Matter rates for those articles meeting USPS requirements. The LED key indicator is illuminated when BND PRNT MRT service is selected.

FUNCTION KEYS



Function Keypad Layout

The following keys are contained in the Function Keypad section of the keyboard. Refer to the layout below or to the actual keypad.

COD - Pressing this key selects the COD special service for both UPS and USPS. After pressing this key the display line prompts for the COD amount. Enter the COD amount using the numeric keys followed by pressing ENTER. The display will indicate

the COD fee then add it to the current shipping charges and show the total. To cancel the COD service press the COD key a second time. The LED key indicator is illuminated when COD service is selected.

ZIP - This key is used to enter the country code number, ZIP code or zone or other identification depending on the selected mode of service.

COUNT - This key (if enabled - see System Set Up) selects the count feature which allows the system to count and display the total number of identical items placed on the scale platform. Press this key and the display prompts "ADD PIECES =." Place a sample number of the pieces to be counted onto the scale platform and enter this number via the keypad. Press ENTER, the display will show "COUNT" with the number of pieces shown in the RATE section of the display line. Items may be removed or added to the scale platform and the system will indicate the number of items in the group. The LED key indicator is illuminated when the count mode is selected.

SET METER - This key is not used.

MAN WEIGHT - Press this key to manually enter the known weight of a package. The display will first prompt for pounds; enter the number of pounds and press ENTER. The display then prompts for ounces. The rate for the selected class of service is then calculated based on the manual weight entry. The manual weight will be retained until cleared by pressing the MANUAL WEIGHT key again.

0 through 9 - These ten keys are used to enter numeric data as required by the system.

ZERO - This key is used to zero the weight display.

CE - This key is used to clear the data entered for corrections during editing of data. Note that it is only effective if pressed prior to pressing the ENTER key.

ENTER - This key is used to complete a data entry and "lock" the rates shown on the display. Rates will remain "locked" for approximately 5 seconds. This function can be used when a package size limits visibility of the display. After pressing the ENTER key, the package can be moved to view the displayed rate.

CALIBRATION

The following describes the Calibration of the MS15/MS30/MS100/MS1600 Scale in the event that the scale should need recalibration. A qualified technician should perform this function to maintain the instrument's high degree of accuracy.

Before beginning calibration, the following equipment is required:

15 pounds of test weights (MS15 Only) or 30 pounds of test weights (MS30 Only) or 50 pounds of test weights (MS100/MS1600 Only) Small flat blade screwdriver Phillips screwdriver



Place the weight on the scale, wait about 5 seconds for the scale to stabilize, then press the ENTER key to start calibration. The display will start to fill with dashes from the left to the right. When finished, the unit will display:

UNLOAD SCALE

Remove the weight from the scale, wait about 5 seconds for the scale to stabilize, then press the ENTER key to finish calibration. The display will start to fill with dashes from the left to the right. When finished, system operation continues as described in System Set Up.

Complete the system set up or press the ENTER key until the unit displays: DONE

This completes calibration of the scale. Return the Calibration/Setup switch to its original position. Remove power from the scale base and re-install the plastic cover. Replace the side panel and apply power to the unit. The scale is now calibrated and ready for operation.

CARE AND MAINTENANCE

- 1. DO NOT subject the scale platform to sudden shocks.
- 2. DO NOT press keys too hard, only a light touch is necessary. Activate keys with your finger, NEVER use a sharp object.
- 3. DO NOT submerge the scale in water or spray water directly on it and DO NOT use abrasives to clean the instrument. Clean the cover with a damp soft cloth and mild detergent. The platform may be removed from scale and submerged in water with a mild detergent, always dry it completely afterwards.
- 4. DO NOT use acetone or other volatile solvents for cleaning.

FUSE REPLACEMENT

If the need to check or replace a fuse arises please follow Steps 1 through 4 carefully.

1. Turn scale power switch to the OFF position and unplug power cord from wall outlet.



ALWAYS remove power source from scale before removing or replacing fuse to prevent risk of electrical shock.

- 2. Press inward on the fuse holder cap, turn counterclockwise and release. The cap along with the fuse should then be ejected on the fuse holder. See figure 4.
- 3. Pull out the old fuse. Place new fuse in holder: 3AG 1/4 ASB type for 110 VAC; 3AG 1/8 ASB type for 220 VAC. Snap the fuse holder back into position.
- 4. The power may now be turned on.

To prevent risk of fire, be certain to use type and rating recommended for your Model scale.



TROUBLESHOOTING GUIDE

The following guide is intended to help isolate and correct minor problems. If, after consulting this guide, you are unable to correct the problem, contact your Detecto dealer for assistance.

SYMPTOM	PROBABLE CAUSE	PROBABLE SOLUTION
System Dead	No AC power Fuse blown No program module Improperly seated program module	Check power cord Replace fuse Insert program module Re-seat program module
Incorrect Scale Weight	Incorrect software Improperly calibrated Scale base not level	Make sure software is for same model scale Calibrate Scale Make sure scale base is level
Unstable weight	Noisy power source Power not grounded Vibration and/or excessive air flow	Install line filter or conditioner Ground the power outlet Relocate scale
Incorrect rates	Improper service Improper installation	Select the proper service Contact Detecto dealer

Country Code Numbers

101	Afghanistan	140	Corsica
102	Albania	141	Costa Rica
103	Algeria	190	Cote d'Ivoire (Ivory Coast)
104	Andorra	312	Croatia
105	Angola	142	Cuba
206	Anguilla	143	Cvprus
106	Antique / Perbude	144	Czechoslovakia
100	Anniqua / Darbuua	145	Denmark
107	Argentina	146	Diibouti
300	Armenia	140	Dominica
165	Aruba	147	Dominica Dominican Popublia
108	Ascension	140	Dominican Republic
109	Australia	149	East Timor
110	Austria	150	Ecuador
301	Azerbaijan	151	Egypt
111	Azores	152	El Salvador
112	Bahamas	153	Equatorial Guinea
113	Bahrain	154	Estonia
114	Bangladesh	155	Ethiopia
115	Barbados	156	Faroe Islands
116	Belaium	157	Falkland Islands
117	Belize	158	Fiji
118	Benin	159	Finland
110	Bermuda	160	France
120	Bhutan	161	French Guiana
120	Bolivia	162	French Polynesia
100	Dolivia	163	Gabon
122	Duswana	164	Gambia
123	Brazil	303	Georgia Bepublic of
301	Azerbaijan	166	Germany Edderal Republic of
111	Azores	167	Chang, Tederal Republic of
112	Bahamas	169	Gibroltor
113	Bahrain	100	Gibraitar
114	Bangladesh	169	Great Britain & Northern Ireland
115	Barbados	170	Greece
116	Belgium	1/1	Greenland
117	Belize	172	Grenada
118	Benin	173	Guadeloupe
119	Bermuda	174	Guatemala
120	Bhutan	175	Guinea
121	Bolivia	176	Guinea Bissau
122	Botswana	177	Guyana
123	Brazil	178	Haiti
297	British Virgin Islands	179	Honduras
124	Brunei	180	Hong Kong
125	Bulgaria	181	Hungarv
120	Burking	182	Iceland
107	Durkina	183	India
127	Durina	184	Indonesia
128	Burnundi	185	Iran
302	Byelarus	186	Irag
129	Cameroon	100	Iraland
130	Canada	107	lerael
131	Cape Verde	100	ISIAEI
132	Cayman Island	189	Italy
133	Central African Republic	191	Jamaica
134	Chad	192	Japan
135	Chile	193	Jordan
136	China	194	Kampuchea (Cambodia formerly)
137	Colombia	304	Kazakhstan
138	Comoros	195	Kenya
139	Congo	196	Kiribati

197	Korea (Democratic Peoples Republic)	251	St. Pierre & Miguelon
108	Korea Benublic of (South Korea)	252	St Vincent & Grenadines
190	Korea, hepublic of (Souli Korea)	232	St. Vincent & Crenadines
199	Kuwait	291	San Marino, Republic of
305	Kyrgyzstan	253	Sao Tome & Principe
200	Lao	254	Saudi Arabia
201	Latvia	255	Senegal
201	Labanan	215	Sorbio
202	Lebanon	315	
204	Lesotho	256	Seychelles
205	Liberia	257	Sierra Leone
206	Libva	258	Singapore
203	Liechtenstein	316	Slovenia
200	Lithuania	010	Solomon Jolondo
207	Liinuania	259	Solomon Islands
208	Luxembourg	260	Somalia
209	Macao	261	South Africa
313	Macedonia (Rep. of)	262	Spain
210	Madagascar	263	Srilanka
210	Madayascal Madaira Jalanda	203	Quelen
211		204	Sudan
212	Malawi	265	Surinam
213	Malaysia	266	Swaziland
214	Maldives	267	Sweden
215	Mali	269	Switzorland
210		200	Switzenanu
216	Malta	269	Syria
217	Martinique	270	Taiwan
218	Mauritania	308	Tajikistan
219	Mauritius	271	Tanzania
210	Maxiaa	070	Theiland
220		272	
306	Moldova	273	logo
221	Mongolia	274	Tonga
314	Montenegro	275	Trinidad & Tobago
298	Montserrat	276	Tristan da Cunha
200	Morrago	077	Tunicio
222	Morocco	277	Tunisia
223	Mozambique	278	Turkey
307	Namibia	309	Turkmenistan
224	Nauru	279	Turks & Caicos Islands
225	Nenal	280	Tuvalu
226	Nothorlands	200	Llaanda
220		201	Oganua
227	Netherlands Antilles	310	Ukraine
228	New Caledonia	283	United Arab Emirates
229	New Zealand	284	Uruguay
230	Nicaragua	311	Uzbekistan
221	Niger	285	Vanuatu
201		200	
232	Nigeria	286	Vatican City
233	Norway	287	Venezuela
234	Oman	288	Vietnam
235	Pakistan	299	Wallis & Futuna Islands
236	Panama	280	Western Samoa
200	Panua New Ouines	203	Versen Denuklis of
237	Papua New Guinea	290	Yemen, Republic of
238	Paraguay	292	Bosnia-Hercegovina
239	Peru	293	Zaire
240	Philippines	294	Zambia
2/1	Pitcairn Island	205	Zimbabwe
241	Deland	200	Zimbabwe
242	Poland		
243	Portugal		
244	Qatar		
245	Reunion Island		
246	Bomania		
292	Duccio		
202			
247	Rwanda		
248	St. Christopher & Nevis		
249	St. Helena		
250	St. Lucia		

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.

Α

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

В

- 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

С

- 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

Ε

- 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

Η

- 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

Κ

- 304 Kazakhstan 195 - Kenya
- 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
- 207 Litruania 208 - Luxembourg

Μ

- 209 Macao
- 313 Macedonia, Republic of
- 210 Madagascar
- 212 Malawi
- 213 Malaysia 214 - Maldives
- 214 Maldive 215 - Mali
- 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

Ν

- 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

0

234 - Oman

Ρ

- 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

Country Code Number Addendum

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)

Т

- 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

Υ

290 - Yemen

Ζ

- 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-SERIES SCALES OPERATION MANUAL

OPERATION CHANGES for Rev 17.5

This addendum explains changes in firmware Rev 17.5 to the operation of the MS-Series 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** 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 key.
- 3. Using the numeric keys, enter a three-digit zip code.
- 4. The scale will then display the rate.

NOTE! The Express Post Office to Post Office service has been discontinued on the MS-Series scale and the key for it (**EXP PO-PO**) has been disabled.

Bound Printed Matter Re-Instated

Beginning with version 17.5 of the firmware, the Bound Printed Matter Parcels (Nonpresorted) service and Bound Printed Matter Flats (Nonpresorted) service have been re-instated in the MS-Series scale and the key for it (**BND PRTD MTTR**) has been enabled.

ADDENDUM FOR MANUAL: 8540-M104-O1 Rev H 7/05 05/08 Rev B

Continued on Back

OPERATION CHANGES for Rev 17.5, 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-Series scale supports the following new First-Class International Mail services:

First Class Mail International

Postcards, Letters, Flats and Packages weighing <u>less than</u> 3.5 oz Large Envelopes (Flats) weighing <u>over</u> 3.5 oz and under 64 oz Packages (Small Packets) weighing <u>over</u> 3.5 oz and under 64 oz

Automatic Service Selection

- 1. Place item on scale and then press the **INTL AIR** key.
- 2. The scale prompts EXPRESS? (1/0 J_.
- 3. Press the **0** key to select NO to Express mail.
- 4. The scale prompts 1= FIRST 2=PRIORITY.
- 5. Press the 1 key to select First Class Mail International.
- 6. The scale prompts *COUNTRY CODE=_00*.
- 7. Using the numeric keypad, enter the three digit country code. Note that the country name will display briefly.
- 8. If item weighs less than 3.5 oz, scale will select the First-Class Mail International service and display the rate (*LT* will show for the ZONE and the country code for the ZIP).
- 9. If item weighs over 3.5 oz but under 64 oz, scale will select the Large Envelopes (Flat) International service and display the rate (*FT* will show for the ZONE and the country code for the ZIP).
- 10. If item is a package, press the **INTL AIR** key to select the Packages (Small Packets) International service rate (*PK* will show for the ZONE and the country code for the ZIP).

NOTE! If item weighs over 64 oz, scale will display OVER WEIGHT LIMIT.

Operator Manually Selects Service for items weighing <u>less than</u> 3.5 oz Postcards, Letters, Flats and Packages

- 1. Press the INTL AIR key.
- 2. The scale prompts EXPRESS? (1/0)_.
- 3. Press the **0** key to select NO to Express mail.
- 4. The scale prompts 1= FIRST 2=PRIORITY.
- 5. Press the 1 key to select First Class Mail International.
- 6. The scale prompts *COUNTRY CODE=_00*.
- 7. Using the numeric keypad, enter the three digit country code. Note that the country name will display briefly.
- 8. Place item on scale.
- 9. The scale will display the First-Class Mail International rate (*LT* will show for the ZONE and the country code for the ZIP).

Large Envelopes (Flats)

- 1. Follow steps 1 through 9 above.
- 2. Press the **INTL AIR** key.
- 3. The scale will display the Large Envelopes (Flat) International service rate (*FT* will show for the ZONE and the country code for the ZIP).

Packages (Small Packets)

- 1. Follow steps 1 through 9 above.
- 2. Press the INTL AIR key two (2) times.
- 3. The scale will display the Packages (Small Packets) International service rate (*PK* will show for the ZONE and the country code for the ZIP).

