ECR Interface Scale

PD-Ⅱ

OWNER'S MANUAL

9002-PD2-0011-1
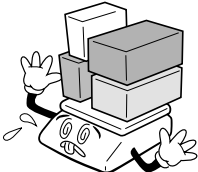
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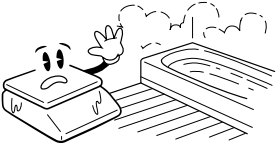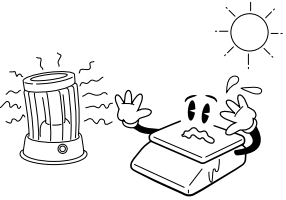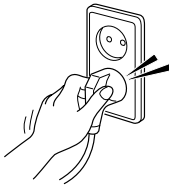
CONTENTS
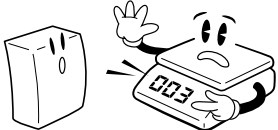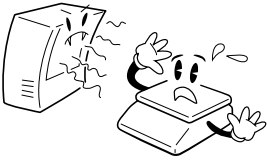
PRECAUTIONS

To ensure that you get the most from your scale, please follow these instruction.

The socket-outlet shall be installed near the equipment and shall be easily accessible.Make sure to plug your scale into the proper power outlet. For maximum performance, plug into a power outlet 30 minutes before the usage for warm up.

⚠ Warning		
Do not disassemble the scale. When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.	Do not overload beyond the maximum weight limit.	Scale must be grounded to minimize electricity static. This will minimize defect or electric shock.
Do not pull the plug by its cord when unplugging. Damaged cord could cause electric shock or fire.	To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.	To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition.
Avoid placing the scale near heater or in direct sunlight.	Insert plug firmly to wall outlet to prevent electric shock.	

⚠ Attention		
For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.	Avoid sudden shock to the scale. Internal mechanism could be damaged.	Grab on the bottom of the scale when moving. Do not hold by the platter.
Place the scale on firm and temperature consistent environment.	If the scale is not properly level, please adjust the 4 legsat the bottom of the scale (turn legs clockwise or counterclockwise) so as to center the bubble of the leveling gauge inside the indicated circle.	
Keep the scale away from other electromagnetic generating devices. This may interfere with accurate reading.		

PREFACE

Thank you for purchasing your CAS PD-Ⅱ sacle.
CAS scales are designed and produced under rigid quality control to deliver outstanding performance, reliability and long life.
This manual will help you with the proper operation and care of your new CAS PD-Ⅱ.
Please review the PD-Ⅱ sacle manual before you use the scale and keep it handy for future reference.

NAMES AND FUNCTIONS

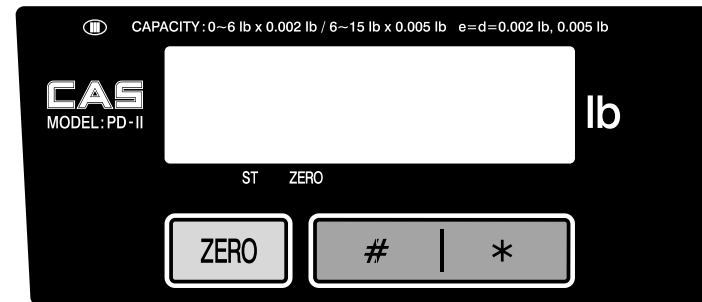### OVERALL VIEW

PLATTER

DISPLAY

SIDE PLATE

KEYBOARD

ADJUSTING BOLT

< STANDARD TYPE >

POWER SWITCH

PARALLEL PORT

RS232

POLE TYPE DISPLAY

PLATTER

POLE TYPE DISPLAY CABLE

DISPLAY

KEYBOARD

ADJUSTING BOLT

< POLE TYPE >

KEYBOARD

CAPACITY : 0~6 lb x 0.002 lb / 6~15 lb x 0.005 lb   e=d=0.002 lb, 0.005 lb

CAS
MODEL : PD-Ⅱ

lb

ST   ZERO

ZERO

| *

DISPLAY

CAS
MODEL : PD-Ⅱ

lb

ST   ZERO

CAPACITY : 0~6 lb x 0.002 lb / 6~15 lb x 0.005 lb   e=d=0.002 lb, 0.005 lb
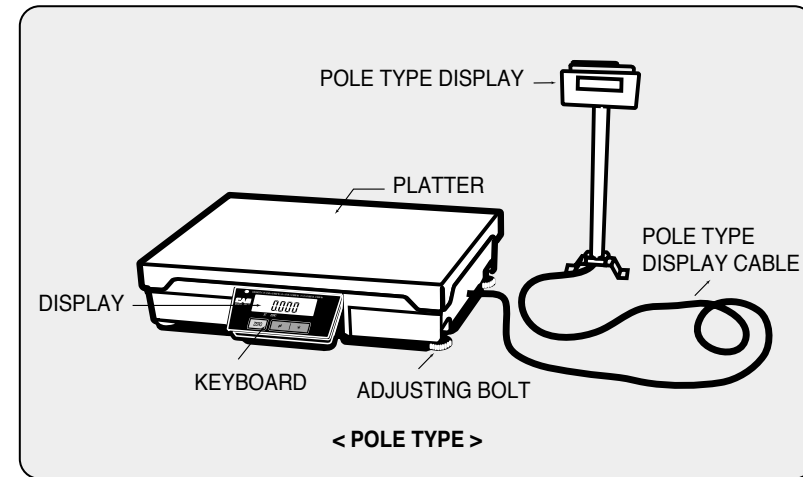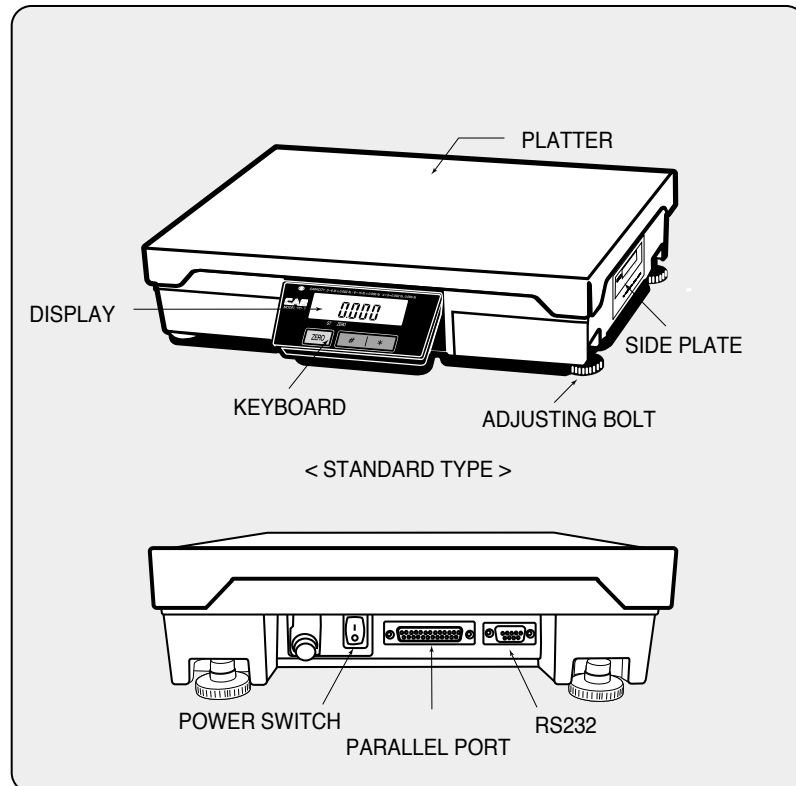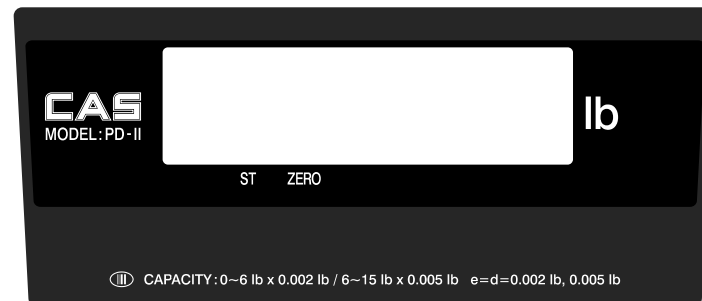
KEY	DESCRIPTION
ZERO	Used to set the zero point to 0.00 or 0.000. Used as ESC key in Setup Mode.
#	Used as ENTER key in Setup Mode.
*	Used as Scroll key in Setup Mode.

OPERATIONS

1. General Weighing

■ The display indicates ZERO symbol, if weight is at ZERO.

■ When the display is not zero though there is nothing on the platter, press the ZERO key.

0.00
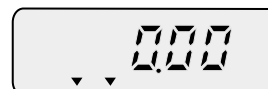
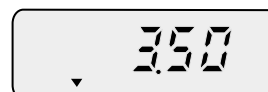① Turn on the power. The display shows 0.00 or 0.000. Make sure that ST(Stable) and ZERO lamps are On.

3.50

② Place an item on the platter. When the ST(Stable) lamp is On, read the weight.

2. ECR Interface

■ PD-II can interface with most ECRs by selecting TYPE 0 to TYPE 6.

ECR Type Selection
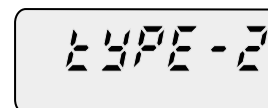
tYPE-2

① Make sure that power is OFF. While pressing "#" key, turn on the power. "EcrSEt" is shown on the disply. And then current ECR type is shown on the display as "tYPE-2".
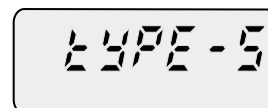
tYPE-5

② If you select ECR type 5, press the " *" key until the display shows "tYPE-5". (Refer to Table 1.)

0.000

③ To save current ECR type, press the ZERO key.

Table 1.

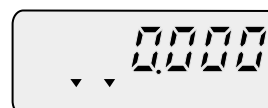|	MENU	Description	
		4-Bit Parallel	RS-232 Serial
✻ key ↓	ECR-TYPE 0	TEC 4 Digit 4Bit Parallel (New kg)	Most POS, ECRs and Some TEC POS System
	ECR-TYPE 1	TEC 4 Digit 4Bit Parallel (Old kg)	
	ECR-TYPE 2	Universal 4 Bit Parallel	Sharp ER-Axxx, New Sanyo ECRs using RS-232 others
	ECR-TYPE 3		Most POS System
	ECR-TYPE 4		Samsung, CRS, NCR2170 and other ECRs
	ECR-TYPE 5		NCI General. Most POS Software
	ECR-TYPE 6		Samsung ER-670

※ Serial Communication
→ 9600 Baud Rate, 7 Date bit, Even Parity. 1 Stop bit

ERROR MESSAGE

ERROR	REASONS	SOLUTIONS
Err	Failure of A/D Module	Call your CAS dealer
Err 1	An error of initial zero range	Set the platter empty Make sure there is a platter on the scale

SPECIFICATIONS

MODEL		15 lb	30 lb	60 lb	150 lb
DIVISION	DUAL INTERVAL	6 lb ×0.002 lb 15 lb ×0.005 lb	15 lb ×0.005 lb 30 lb ×0.01 lb	30 lb ×0.01lb 60 lb ×0.02 lb	60 lb ×0.02 lb 150 lb ×0.05 lb
INTERNAL RESOLUTION		1/90,000			
EXTERNAL RESOLUTION		1/3,000 DUAL			
DISPLAY		VFD 6 DIGITS			
DISPLAY LAMP		ST(STABLE), ZERO			
INTERFACE		RS-232C, 4-Bit Parallel Communication (ECR Interface)			
PRODUCT SIZE		380(W) ×280(D) ×79(H) [mm]			
PLATTER SIZE		380(W) ×280(D) [mm]			
PRODUCT WEIGHT		6.7kg			
TEMPERATURE RANGE		–10℃ ～ +40℃			
POWER SUPPLY		AC 120V /60Hz			