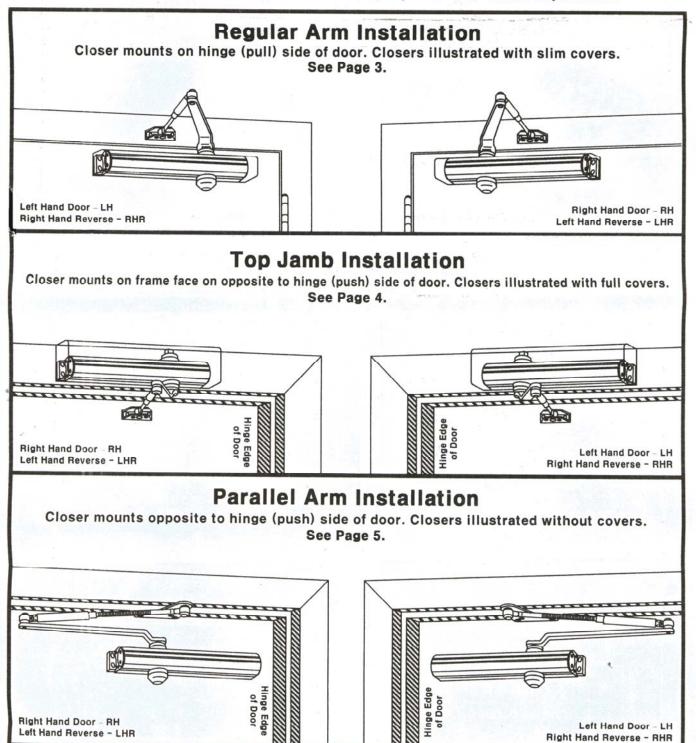


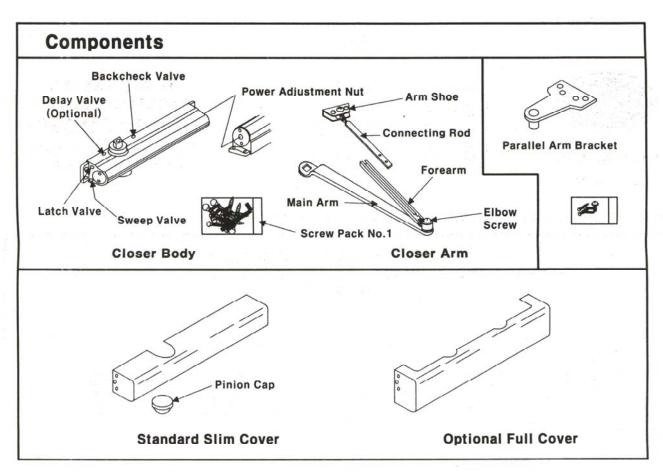
Non Hold Open Door Closer AN INCORRECTLY INSTALLED OR IMPROPERLY
ADJUSTED DOOR CLOSER CAN CAUSE PROPERTY DAMAGE OR PERSONAL INJURY
THESE INSTALLATION INSTRUCTIONS SHOULD
BE FOLLOWED TO AVOID THE POSSIBILITY OF
MISAPPLICATION OR MISADJUSTMENT.

# Installation Instructions Model: CR8501

Series can be adjusted from Power size 2 thru 6.

NOTE: Use this instruction sheet for installation sequence and closer adjustments



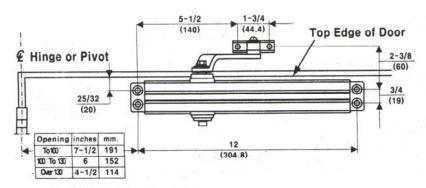


		PF	REPARATION	for FASTENER	rs	
	F	asteners	Door or Frame	Туре	Drill-Size	
	1	M6 × 1.0 19/32" (15mm)				1
Screw Pack No.2	2	S.M. Screw 1-1/4" (32mm)	Wood		7/32″ (5.5mm.)	4
	3	Machine Screw 1/4" -20	Metal		Drill: #7(.201 dia.) Tap: 1/4" -20	4
	4	S.M. Screw 3/4" (19mm)	Wood	( <u>)</u>	7/32″ (5.5mm.)	2
	(5)	Machine Screw 1/4" -20	Metal		Drill: #7(.201 dia.) Tap: : 1/4" -20	2
	6	Machine Screw 1/4" -20				2
	7	Machine Screw M4 × 0.7				2
	8	4mm Hex Key Wrench				1
ıck	9	M6 × 1.0 15/32 (12mm)	,	4		1
Screw Pack No.2	10	S.M. Screw 3/4" (19mm)	Wood	Ommo		4
	11	Machine Screw	Metal			4

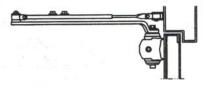
# Regular Arm

# Installation Instructions

## Template



NOTE: DOOR OPENINGS TO 180° CONDITIONS PERMITTING



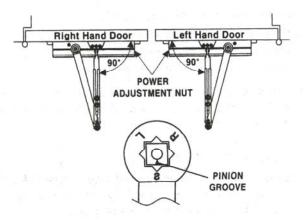
- RIGHT HAND DOOR SHOWN.
- SAME DIMENSIONS APPLY FOR LEFT HAND DOOR MEASURED FROM CENTERLINE OF PIVOT POINT.
- DIMENSIONS ARE IN (mm.)

#### PLEASE NOTE

- · This drawing is not to full scale.
- Therefore, do not use it as your template to locate the hole positions while you fabricate your door and frame for the installation of this product.
- Instead make the measurements needed manually without the use of the enclosed template which is not to full scale.

#### INSTALLATION INSTRUCTIONS

- Select angle of opening and use dimensions shown to locate 4 HOLES ON DOOR for closer body and 2 HOLES ON FRAME face for arm shoe.
- Prepare door and frame for fasteners. See "Preparation for Fasteners", page 2.
- Set closing power for door size using Chart below right and see page 6, figure 2.
- Mount closer body on door with screws ②or③, page 2
   Be sure that power adjustment nut is away from hinge.
- Place main arm on closer pinion shaft with screw ①
  page 2. Indexing main arm mark "S" with pinion groove
  as shown at right.
- Fix arm shoe to frame with screws 4 or 5, page 2.
- . Insert connecting rod into forearm.
- Pull main arm toward opposite side of hinge so that connecting rod will be perpendicular to door.
   Fix connecting rod on forearm using screws (6), page 2.
- Adjust closer and install cover and pinion cap.
   (When full cover is installed, use screws ①, page 2.)
   See page 6 for closer adjustment.

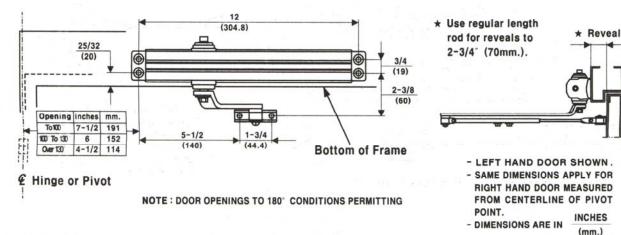


ADJUST SPRING POWER				
CLOSER	CLOCKWISE TURNS OF ADJUSTING NUT			
1	0			
2	2			
3	4			
4	8			
5	12			
6	16			

# Top Jamb

# Installation Instructions

# **Template**

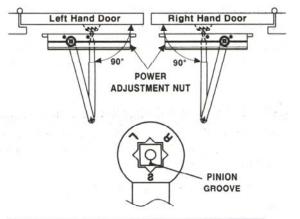


#### **PLEASE NOTE**

- · This drawing is not to full scale.
- Therefore, do not use it as your template to locate the hole positions while you fabricate your door and frame for the installation of this product.
- Instead make the measurements needed manually without the use of the enclosed template which is not to full scale.

#### INSTALLATION INSTRUCTIONS

- Select angle of opening and use dimensions shown to locate 4 HOLES ON DOOR for arm shoe and 2 HOLES ON FRAME face for arm closer body.
- Prepare door and frame for fasteners. See "Preparation for Fasteners", page 2.
- Set closing power for door size using Chart below right and see page 6, figure 2.
- Mount closer body on frame with screws ②or③, page 2
   Be sure that power adjustment nut is away from hinge.
- Place main arm on closer pinion shaft with screw ①
  page 2. Indexing main arm mark "S" with pinion groove
  as shown at right.
- Fix arm shoe to door with screws 4 or 5, page 2.
- . Insert connecting rod into forearm.
- Pull main arm toward opposite side of hinge so that connecting rod will be perpendicular to door. Fix connecting rod on forearm using screws (6), page 2.
- Adjust closer and install cover and pinion cap.
   (When full cover is installed, use screws ①, page 2.)
   See page 6 for closer adjustment.

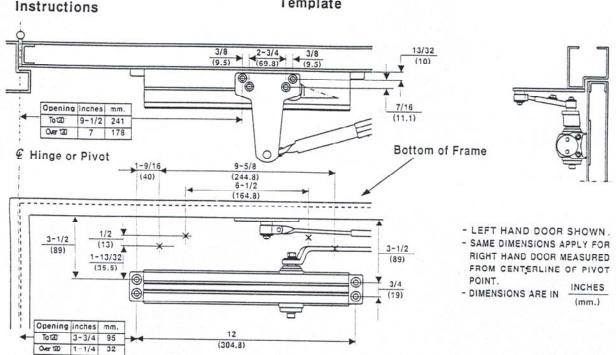


ADJUST SPRING POWER				
CLOSER	CLOCKWISE TURNS OF ADJUSTING NUT			
1	0			
2	2			
3	4			
4	8			
5	12			
6	16			

# Parallel Arm

# Installation Instructions

## Template



#### PLEASE NOTE

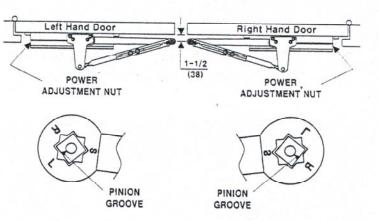
This drawing is not to full scale.

Therefore, do not use it as your template to locate the hole positions while you fabricate your door and frame for the installation of this product.

 Instead make the measurements needed manually without the use of the enclosed template which is not to full scale.

## INSTALLATION INSTRUCTIONS

- · Select angle of opening and use dimensions shown to locate 4 HOLES ON DOOR for closer body and 4 HOLES ON FRAME face for parallel arm bracket.
- Prepare door and frame for fasteners. See "Preparation for Fasteners", page 2.
- Set closing power for door size using Chart below right and see page 6, figure 2.
- Mount closer body on door with screws @or③, page 2 Be sure that power adjustment nut is toward hinge.
- · Place main arm on closer pinion shaft with screw ① page 2, indexing main arm mark "L" or "R" with pinion groove as shown at right.
- Fix parallel arm bracket to frame with screws ®or®, page 2.
- · Disconnect arm shoe from connecting rod by removing screw. Remove arm shoe from connecting rod and discard. Assemble parallel arm bracket to connecting rod with Screw 9, page 2.
- Insert connecting rod into forearm.
- With door closed, adjust length of forearm and connecting rod so that the tip of the main arm is 1-1/2" (38mm.) from parallel with door.
  - Secure with screws ®, page 2.
- Adjust closer and install cover and pinion cap. (When full cover is installed, use screws T, page 2.) See page 6 for closer adjustment.



ADJUST SPRING POWER				
CLOSER SIZE	CLOCKWISE TURNS OF ADJUSTING NUT			
1	. 0			
2	2			
3	. 4			
4	8			
5	12			
6	16			

# Unit Adjustment

## **Control Valve Adjustments** (see Figure 2)

Closing Speed Controls(Figure 1A or 1B And 2.)

- Valve "1" Controls Sweep Range.
  Valve "2" Controls Latch Range.
- · Valve "D" Controls Delay Range. (Optional)

#### Opening Cycle

. "Backcheck" valve controls the strength of cushioning in Backcheck Range, NEVER close this valve completelyit is not to provide a positive stop. (see Figure 4 and Figure 5).

# **Closing Power Adjustment**

Using "Power Adjustment Chart" from page 3,4 or 5, Select the correct number of turns for power adjustment nut that corresponds with the installation. With 4mm Hex key, rotate adjustment nut full 360° clockwise turns to desired setting. After closer has been installed and proper adjustments made to the sweep and latch, it may be necessary to readjust spring power for good closing action.

