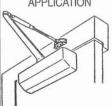
# DOOR CLOSE

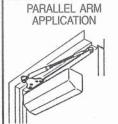
2550 SERIES INSTALLATION INSTRUCTIONS

SELECT PROPER APPLICATION FROM ILLUSTRATIONS BELOW. THEN FOLLOW INSTALLATION INSTRUCTIONS ON GIVEN PAGE

STANDARD **APPLICATION** 



CLOSER MOUNTED ON HINGE SIDE OF DOOR



CLOSER MOUNTED ON STOP SIDE OF DOOR

TOP JAMB APPLICATION

CLOSER MOUNTED ON FRAME ON STOP SIDE OF DOOR

USE PAGE4

APPLICATION

TRACK RAIL

CLOSER MOUNTED ON HINGE SIDE OF DOOR WITH TRACK-RAIL ON FRAME USE PAGES

#### ADJUSTING SPRING POWER ACCORDING TO CHART

USE PAGE3

			Turns of Spring Adjusting Screw							
Closer Size	Max. Door width (mm)	Max. Door weight (kg)	STANDARD		PARALLEL ARM		TOP JAMB		TRACK-RAIL	
			from Preset	from Min.	from Preset	from Min.	from Preset	from Min.	from Preset	from Min.
1	750	20	-7	0	-6	+1	-6	+1	0	+7
2	850	40	-4	+3	-2	+5	-2	+5	+3	+10
3☆	950	60	0	+7	+2	+9	+2	+9	~	
4	1100	80	+3	+10						
Max. Door Opening			180°		180°		180°		180°	

☆ FACTORY PRESET TO SIZE 3 FOR STANDARD APPLICATION.

ADJUST SPRING POWER FOR DOOR WEIGHT AND WIDTH AS INDICATED IN CHART.

TO INCREASE CLOSING POWER. TURN SPRING ADJUSTING SCREW CLOCKWISE.

MAXIMUM ADJUSTMENT IS APPROXIMATELY 10 TURNS.



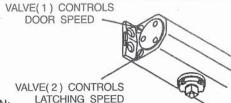
#### PERIODIC MAINTENANCE

NONE REQUIRED OTHER THAN TO CHECK SECURITY OF FIXINGS ON A REGULAR BASIS

### FINAL ADJUSTMENT AND REGULATING PROCEDURES

REGULATING DOOR SPEED AND LATCHING SPEED

TURN SOCKET SCREW CLOCKWISE TO SLOW DOWN OR COUNTERCLOCKWISE TO SPEED UP DOOR MOVEMENT.



CAUTION:

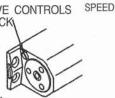
Take care when adjusting valves to ensure that they are not wound counterclockwise too far as this could disengage them and allow fluid to be lost.

#### REGULATING BACKCHECK

THE INTENSITY OF BACKCHECK ACTION IS REGULATED BY VALVE SHOWN. TURN CLOCKWISE TO INCREASE OR COUNTERCLOCKWISE TO DECREASE BACKCHECK.

CAUTION:Set valve for a slight cushioning effect. it is damaging to the closer if the checking action is too abrupt. Backcheck should never be used in lieu of a door stop. LATCHING |

THIS VALVE CONTROLS BACKCHECK



CLOSING SPEED BACKCHECK

CAUTION:

Take care when adjusting valves to ensure it is not wound counterclockwise too far as this could disengage it and allow fluid to be lost.

## ADJUSTING FOOT FOR ADDITIONAL CLOSING POWER

STANDARD POSITION DOOR 0 MORE POWER G ED 111 HING

PAGE

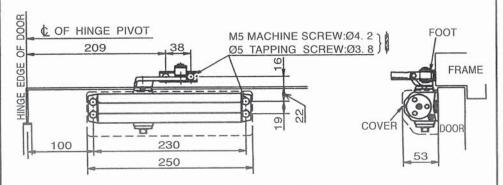
# INSTALLATION INSTRUCTIONS

# STANDARD APPLICATION

CLOSER MOUNTED ON HINGE SIDE OF DOOR

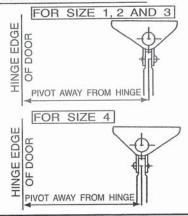
RIGHT HAND DOOR ILLUSTRATED. SAME DIMENSIONS APPLY FOR LEFT HAND DOOR-MEASURED FROM HINGE & .



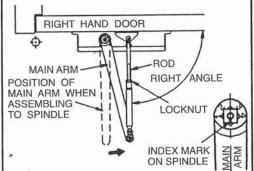


- A
  - MARK LOCATION OF ATTACHING SCREWS ON DOOR AND FRAME AS SHOWN ABOVE. DRILL SIZES TO BE USED AS SHOWN.
  - ATTACH CLOSER TO DOOR WITH SHORT END OF CLOSER FACING TOWARD HINGE.
- ATTACH FOOT TO FRAME WITH PIVOT AWAY FROM HINGE AS ILLUSTRATED BELOW.

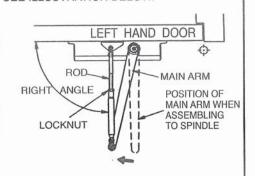
RIGHT HAND DOOR SHOWN



ASSEMBLE MAIN ARM TO CLOSER WITH INDEX MARK ON SPINDLE ALIGNED WITH AXIS OF ARM AS ILLUSTRATED BELOW. ATTACH ARM WITH WASHER AND SCREW. TIGHTEN SECURELY USING SPANNER.



TIGHTEN LOCKNUT SECURELY WHEN ROD IS AT RIGHT ANGLE TO DOOR.
SEE ILLUSTRATION BELOW.



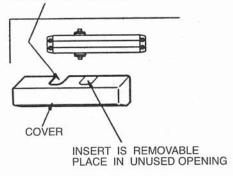
SECURE MAIN ARM TO FRAME ARM AT ELBOW WITH SCREW AND TIGHTEN.

E

ADJUST AND REGULATE DOOR CLOSER AS DIRECTED AT PAGE1 FOR SPEED AND BACKCHECK.

F INSTALL COVER AS FOLLOWS:

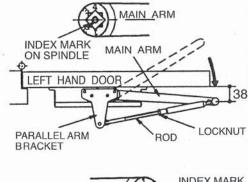
ALIGN COVER OPENINGS WITH THE CLOSER SPINDLE, AND SNAP ENDS OF COVER INTO POSITION OVER CLOSER

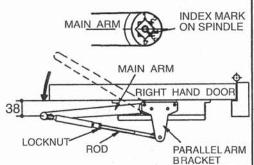


PAGE

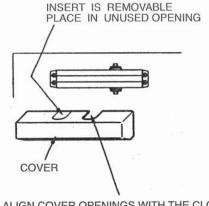
#### CLOSER MOUNTED ON INSTALLATION PARALLEL ARM APPLICATION **INSTRUCTIONS** STOP SIDE OF DOOR RIGHT LEFT LEFT HAND DOOR F----HAND DOOR HAND DOOR ILLUSTRATED HINGE SIDE HINGE SIDE SAME DIMENSIONS APPLY FOR RIGHT HAND STOP SIDE STOP SIDE DOOR-MEASURED FROM HINGE C . M5 MACHINE SCREW:Ø4. 2 ղ Ø5 TAPPING SCREW:Ø3.8 158 40 C OF HINGE PIVOT 67 19 -230 250 M5 MACHINE SCREW:Ø4. 2 Ø5 TAPPING SCREW:Ø3. 8 A 1. MARK LOCATION OF ATTACHING PARALLEL ARM BRACKET SCREWS ON DOOR AND FRAME FOR PARALLEL ARM APPLICATION REMOVE AS SHOWN ABOVE. DRILL SIZES FOOT BRACKET AND REPLACE WITH TO BE USED AS SHOWN. PARALLEL ARM BRACKET USING SCREW AND WASHER PROVIDED. 2. ATTACH CLOSER TO DOOR AND PARALLEL ARM BRACKET TO FRAME (LONG END OF CLOSER TOWARD HINGE). ADJUST AND REGULATE DOOR CLOSER AS DIRECTED AT PAGE1 FOR SPEED AND В BACKCHECK.

ASSEMBLE MAIN ARM TO CLOSER WITH INDEX MARK ON END OF SPINDLE 45° FROM AXIS OF ARM, AS ILLUSTRATED BELOW,USING A WRENCH ON THE BOTTOM SPINDLE TO ROTATE SPINDLE INTO POSITION. ATTACH ARM TO SPINDLE WITH WASHER AND SCREW.





E INSTALL COVER AS FOLLOWS:



ALIGN COVER OPENINGS WITH THE CLOSER SPINDLE, AND SNAP ENDS OF COVER INTO POSITION OVER CLOSER

PAGE

#### CLOSER MOUNTED ON FRAME INSTALLATION TOP JAMB APPLICATION **INSTRUCTIONS** ON STOP SIDE OF DOOR LEFT HAND DOOR LEFT ILLUSTRATED ---- HAND DOOR HAND DOOR SAME DIMENSIONS HINGE SIDE HINGE SIDE APPLY FOR RIGHT HAND DOOR-MEASURED FROM STOP SIDE STOP SIDE HINGE C . 250 230 FRAME COVER 222 38 FOOT DOOR OF HINGE PIVOT M5 MACHINE SCREW:Ø4. 2 Ø5 TAPPING SCREW:Ø3. 8 TIGHTEN LOCKNUT SECURELY WHEN ROD 1. MARK LOCATION OF ATTACHING SCREWS ON DOOR AND FRAME IS AT RIGHT ANGLE TO DOOR. AS SHOWN ABOVE. DRILL SIZES SEE ILLUSTRATION BELOW. TO BE USED AS SHOWN. RIGHT HAND DOOR 2. ATTACH CLOSER TO FRAME WITH SHORT END OF CLOSER 1 FACING TOWARD HINGE. MAIN ARM ROD RIGHT ANGLE ATTACH FOOT TO FRAME WITH PIVOT AWAY FROM HINGE AS ILLUSTRATED LOCKNUT BELOW. VIEW LOOKING UP WHEN ASSEMBLING ARM TO SPINDLE PIVOT AWAY FROM HINGE POSITION OF EDGE MAIN ARM WHEN DOOR ASSEMBLING TO SPINDLE HINGE LEFT HAND DOOR SHOWN INDEX MARK MA PIVOT AWAY FROM HINGE ON SPINDLE ! EDGE DOOR SECURE MAIN ARM TO FRAME ARM AT ELBOW WITH SCREW AND TIGHTEN. HINGE OF RIGHT HAND DOOR SHOWN ADJUST AND REGULATE DOOR CLOSER AS DIRECTED AT PAGE1 FOR SPEED AND ASSEMBLE MAIN ARM TO CLOSER BACKCHECK. WITH INDEX MARK ON SPINDLE ALIGNED WITH AXIS OF ARM AS INSTALL COVER AS FOLLOWS: ILLUSTRATED BELOW. ATTACH ARM WITH WASHER AND SCREW. ALIGN COVER OPENINGS WITH THE TIGHTEN SECURELY USING SPANNER. CLOSER SPINDLE, AND SNAP ENDS OF COVER INTO POSITION OVER CLOSER LEFT HAND DOOR MAIN ARM VIEW LOOKING UP ROD WHEN ASSEMBLING ANGLE RIGHT ARM TO SPINDLE COVÉR LOCKNUT INSERT IS REMOVABLE PLACE IN UNUSED OPENING POSITION OF

INDEX MARK

ON SPINDLE

PAGE

4

MAIN ARM WHEN

ASSEMBLING

TO SPINDLE

