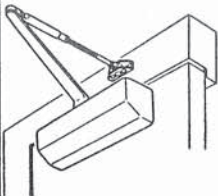
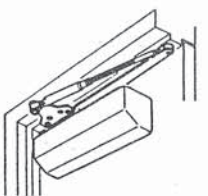
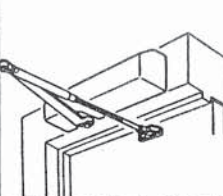
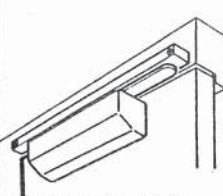


RYOBI DOOR CLOSER

42121

D-2550 SERIES INSTALLATION INSTRUCTIONS

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

STANDARD APPLICATION	PARALLEL ARM APPLICATION	TOP JAMB APPLICATION	TRACK RAIL APPLICATION
			
CLOSER MOUNTED ON HINGE SIDE OF DOOR	CLOSER MOUNTED ON STOP SIDE OF DOOR	CLOSER MOUNTED ON FRAME ON STOP SIDE OF DOOR	CLOSER MOUNTED ON HINGE SIDE OF DOOR WITH TRACK-RAIL ON FRAME
USE PAGE2	USE PAGE3	USE PAGE4	USE PAGE5

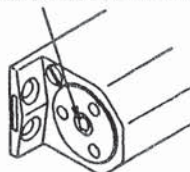
ADJUSTING SPRING POWER ACCORDING TO CHART

Closer Size	Max. Door width (mm)	Max. Door weight (kg)	Turns of Spring Adjusting Screw							
			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.

SPRING ADJUSTING SCREW



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.

VALVE (1) CONTROLS DOOR SPEED

VALVE (2) CONTROLS LATCHING SPEED

CAUTION:

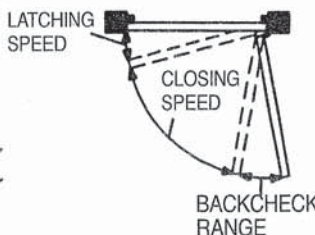
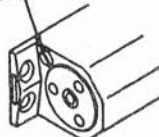
Take care when adjusting valves to ensure that they are not wound counterclockwise too far as this could disengage them and allow fluid to be lost.

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.

THIS VALVE CONTROLS BACKCHECK



CAUTION:

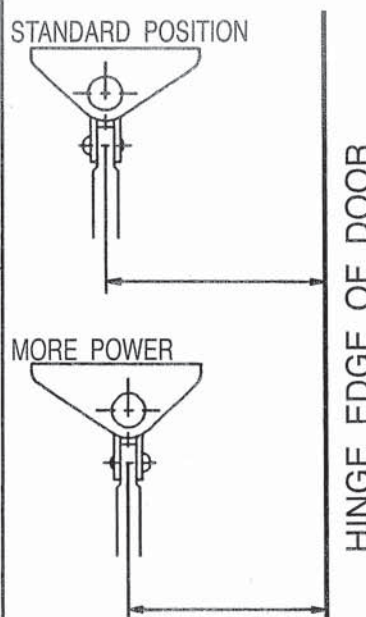
Take care when adjusting valves to ensure it is not wound counterclockwise too far as this could disengage it and allow fluid to be lost.

ADJUSTING FOOT FOR ADDITIONAL

CLOSING POWER

STANDARD POSITION

MORE POWER



HINGE EDGE OF DOOR

PAGE

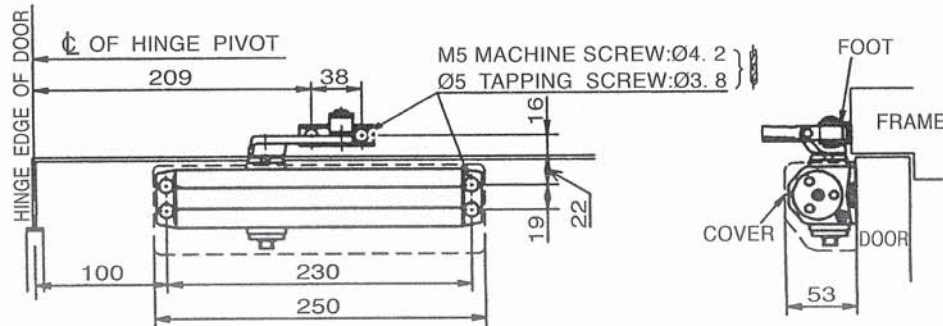
1

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 ϕ .



A

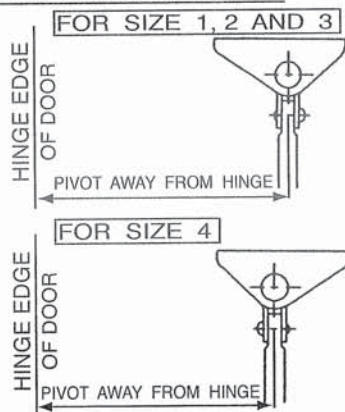
1. MARK LOCATION OF ATTACHING
SCREWS ON DOOR AND FRAME
AS SHOWN ABOVE. DRILL SIZES
TO BE USED AS SHOWN.

2. ATTACH CLOSER TO DOOR WITH
SHORT END OF CLOSER FACING
TOWARD HINGE.

B

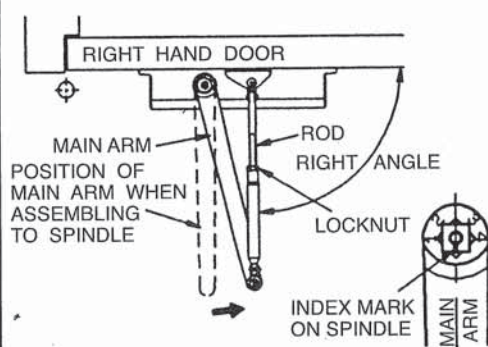
ATTACH FOOT TO FRAME WITH PIVOT
AWAY FROM HINGE AS ILLUSTRATED
BELOW.

RIGHT HAND DOOR SHOWN



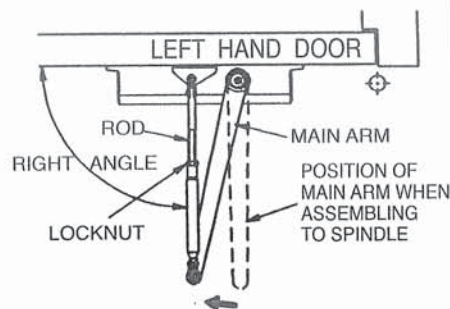
C

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.



D

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.

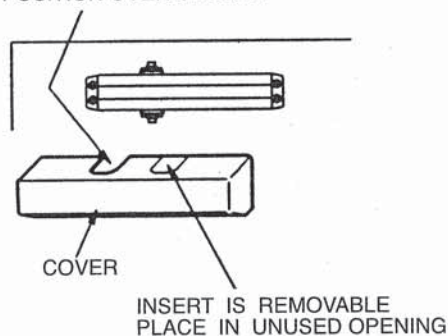
E

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

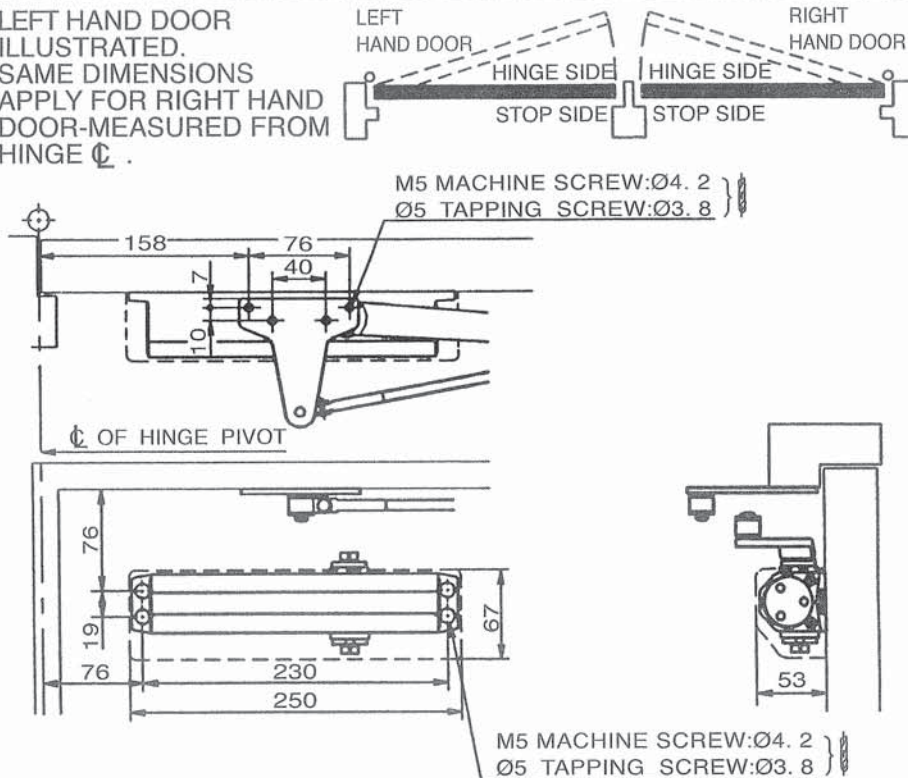
F

INSTALL COVER AS FOLLOWS:

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



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

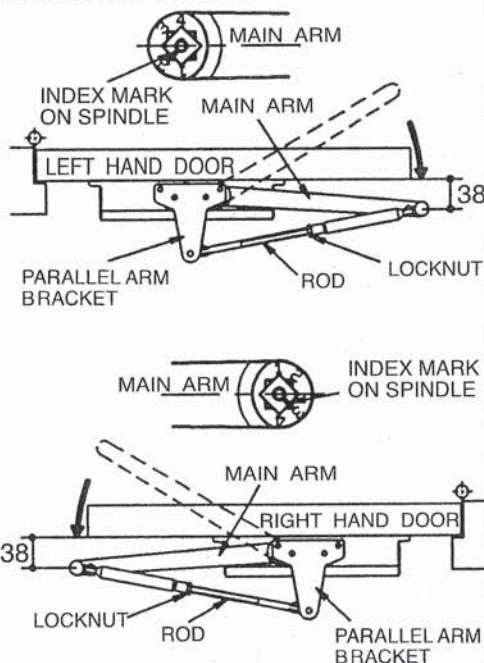


A

1. MARK LOCATION OF ATTACHING SCREWS ON DOOR AND FRAME AS SHOWN ABOVE. DRILL SIZES TO BE USED AS SHOWN.
2. ATTACH CLOSER TO DOOR AND PARALLEL ARM BRACKET TO FRAME (LONG END OF CLOSER TOWARD HINGE).

B

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.



C

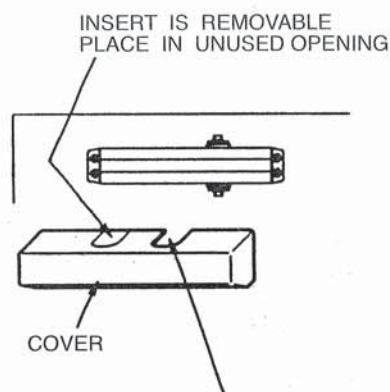
PARALLEL ARM BRACKET FOR PARALLEL ARM APPLICATION REMOVE FOOT BRACKET AND REPLACE WITH PARALLEL ARM BRACKET USING SCREW AND WASHER PROVIDED.

D

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

E

INSTALL COVER AS FOLLOWS:



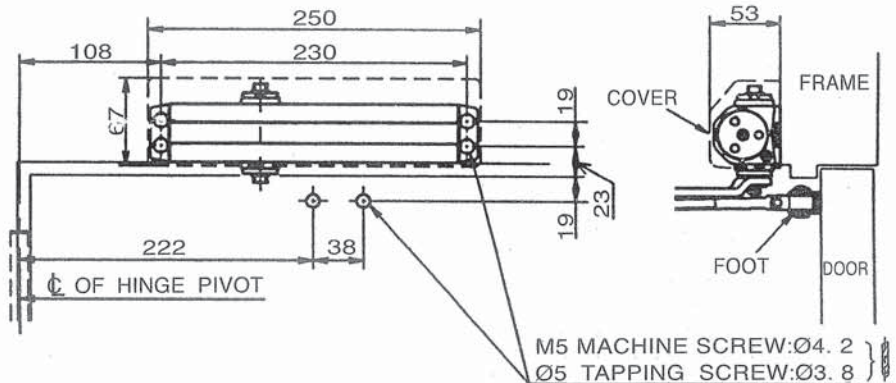
ALIGN COVER OPENINGS WITH THE CLOSER SPINDLE, AND SNAP ENDS OF COVER INTO POSITION OVER CLOSER

INSTALLATION INSTRUCTIONS

TOP JAMB APPLICATION

CLOSER MOUNTED ON FRAME
ON STOP SIDE OF DOOR

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

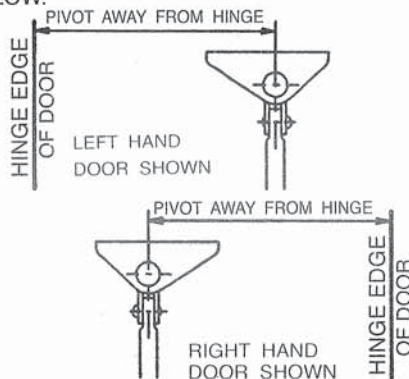


A

1. MARK LOCATION OF ATTACHING SCREWS ON DOOR AND FRAME AS SHOWN ABOVE. DRILL SIZES TO BE USED AS SHOWN.
2. ATTACH CLOSER TO FRAME WITH SHORT END OF CLOSER FACING TOWARD HINGE.

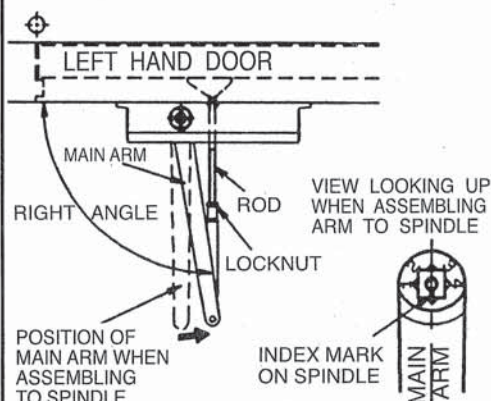
B

ATTACH FOOT TO FRAME WITH PIVOT AWAY FROM HINGE AS ILLUSTRATED BELOW.



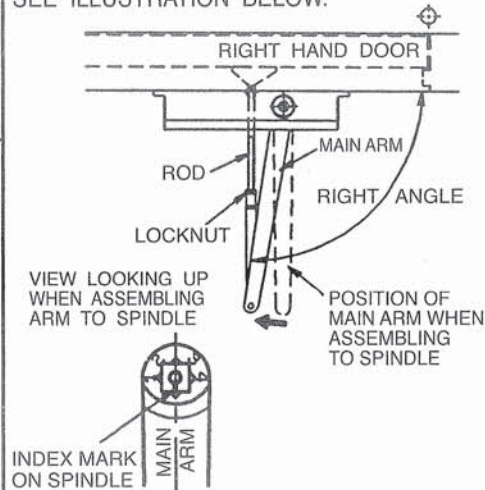
C

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.



D

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.

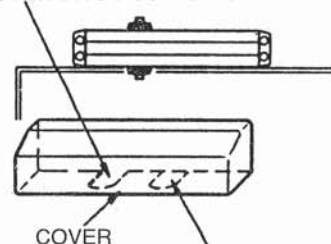
E

ADJUST AND REGULATE DOOR CLOSER AS DIRECTED AT PAGE 1 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

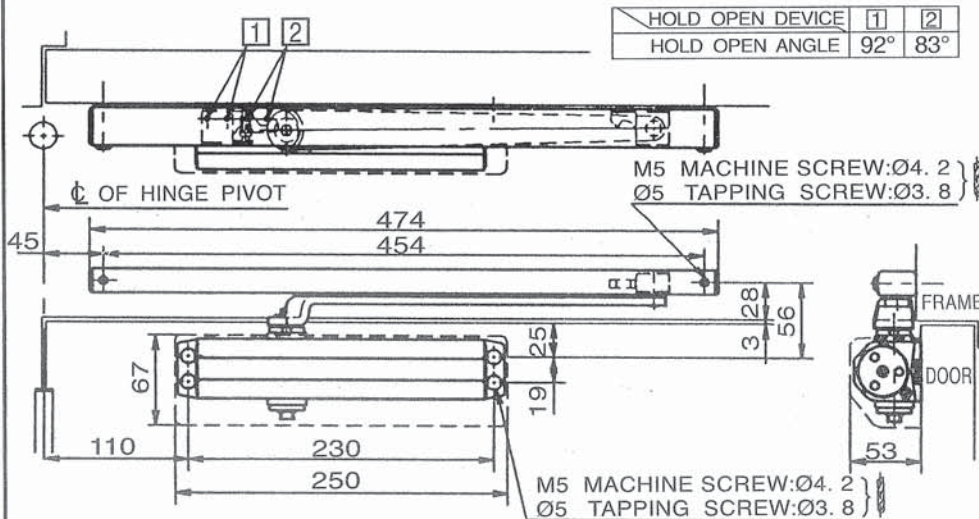


INSTALLATION INSTRUCTIONS

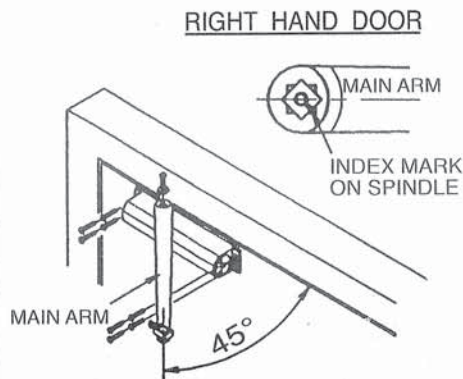
TRACK RAIL APPLICATION

CLOSER MOUNTED ON
HINGE SIDE OF DOOR
WITH TRACK RAIL ON FRAME

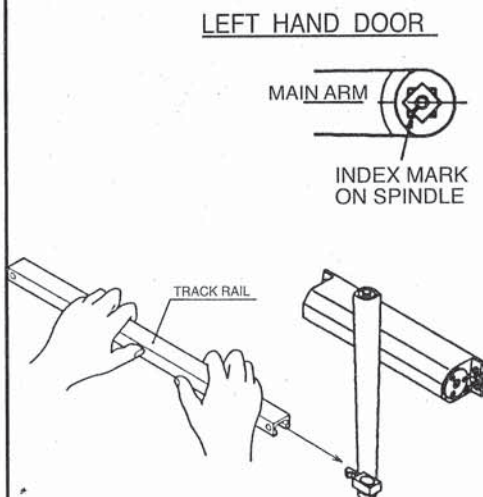
RIGHT HAND DOOR
ILLUSTRATED.
SAME DIMENSIONS
APPLY FOR LEFT HAND
DOOR-MEASURED FROM
HINGE ϕ .



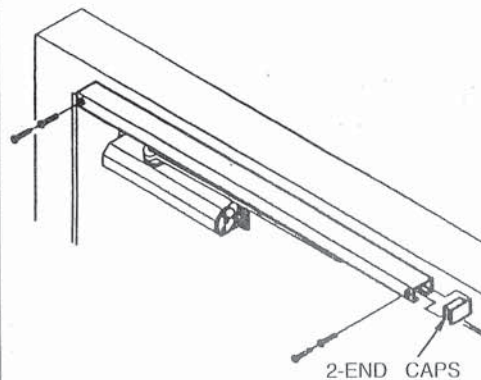
A ASSEMBLE MAIN ARM TO CLOSER 45°
AWAY FROM DOOR AS ILLUSTRATED
BELOW. ATTACH ARM WITH WASHER
AND SCREW. ATTACH CLOSER TO DOOR WITH SHORT
END OF CLOSER FACING TOWARD HINGE.



B INSERT SLIDER OF ARM INSIDE TRACK
RAIL AS ILLUSTRATED BELOW.



C ASSEMBLE END CAPS ON BOTH ENDS OF
TRACK RAIL. ATTACH TRACK RAIL ON
FRAME WITH SCREW.



D ADJUST AND REGULATE DOOR CLOSER AS
DIRECTED AT PAGE 1 FOR SPEED AND
BACKCHECK.

E INSTALL COVER AS FOLLOWS:

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

