



**INSTALLATION INSTRUCTIONS
RDO2501 SLIDE DOOR OPERATOR
FULL SIZE FORD VAN KIT # 01139**

- Be certain that these supplemental instructions are read and understood completely before installation is attempted. You should also refer to the Service/Owner Manual for additional installation instructions and safety precautions.
- Check contents of this kit and notify Ricon immediately of any missing parts. Claims for damages that have occurred during shipping must be made to the shipper.

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I. INTRODUCTION

The following instructions outline the step by step installation of a RDO-2501 sliding door operator into a Ford Full Size Van.

II. TOOLS REQUIRED

#2 & #4 Phillips Screwdriver
Tape Measure

3/4" Holesaw
Drill Set

Hex Wrench set
1/2" & 7/16" Wrenches

III. VEHICLE PREPARATION

- A. REMOVE PLASTIC STEPWELL COVER.
- B. REMOVE DOOR LATCH AT FORWARD/REAR DOOR POST **FIGURE [1]**.
- C. VERIFY SMOOTH OPERATION OF DOOR.
- D. DRILL THE FOLLOWING HOLES **FIGURE [2]**:
 1. Drill one 3/4" dia. hole 19 3/8" above the vehicle floor and 1-5/8" from the edge of the doorpost **Figure [2], Item "A"** .
 2. Drill one 0.136" dia. hole 17 7/8" above the vehicle floor and 3/4" from the edge of the door post **Figure [2], Item "B"**.
 - a. Measure 1/2" below the horizontal centerline of hole "B" drilled in step 2 and draw a horizontal line **Figure [2]**.
 - b. Measure 7/16" from the vertical centerline of hole "B" drilled in step 2 and draw a vertical line **Figure [2]**.
 - c. Drill a 0.136" hole at the cross section of the two lines drawn in steps 2.a. and 2.b. this is hole "C" **Figure [2], Item "C"**.
 - d. Measure 1 1/4" from the vertical centerline of hole "C" in step 2.c. **Figure [2]**.
 - e. Drill a 0.136" hole at the cross section of the lines drawn in steps 2.a. and 2.d. this is hole "D" **Figure [2], Item "D"**.

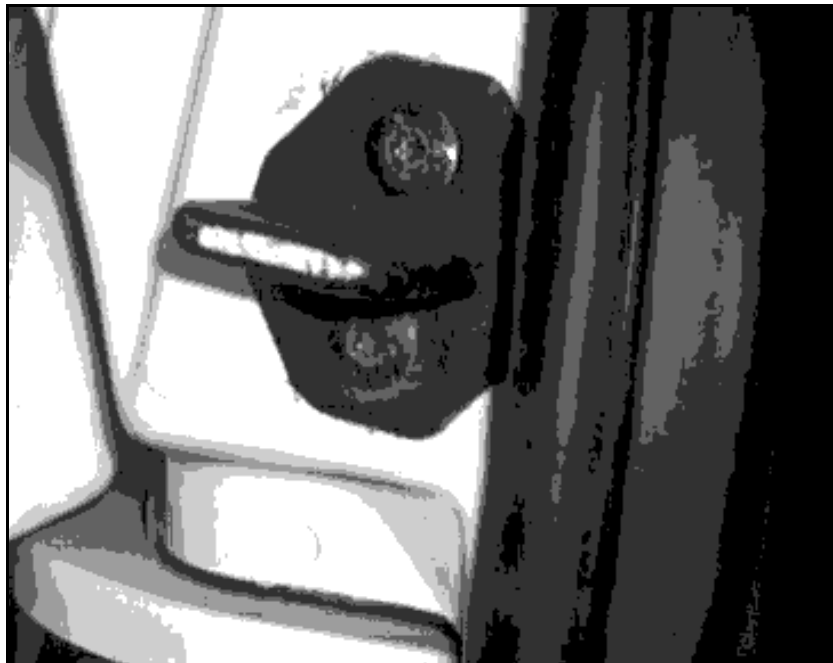


FIGURE [1]: REMOVE ALL DOOR LATCHES AND STOPS

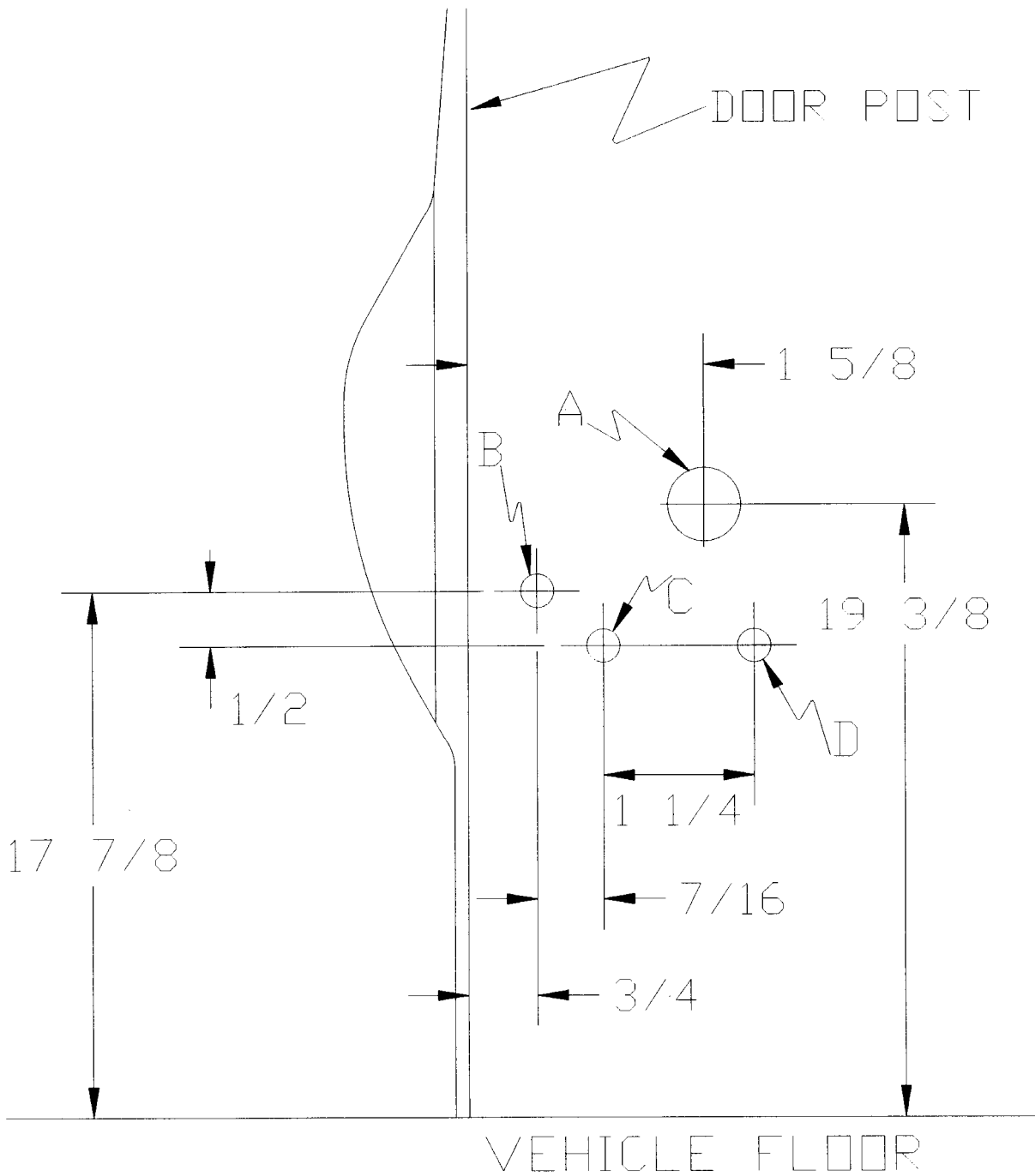


FIGURE [2]: DOOR POST DRILLING DIMENSIONS

IV. MOUNT THE DOOR OPERATOR

- A. INSERT THE SUPPLIED DELRIN BUSHING INTO THE 3/4" HOLE **FIGURE [3]**.
- B. REMOVE BOTH RELAYS TO GAIN ACCESS TO MOUNTING HOLES.
- C. INSTALL CHAIN GUARD AND DOOR OPERATOR TO DOOR POST:
 1. Install the chain guard and door operator using the provided 3 sheet metal screws. Drilling through the door post **Figure [4]**.



FIGURE [3]: DELRIN INSTALLED

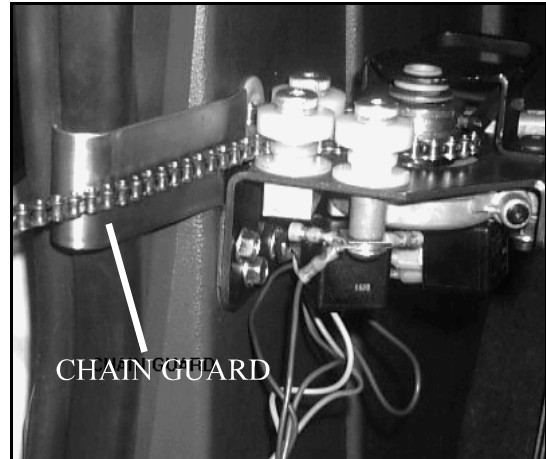


FIGURE [4]: CHAIN GUARD AND D.O. INSTALLED

2. Verify that the door operator is level and reassemble the relays.

V. FORWARD DOOR BRACKET INSTALLATION

- A. INSTALL THE FORWARD DOOR BRACKET TO THE DOOR USING THREE #8 PHILLIPS HEAD SCREWS PER DIMENSION SHOWN IN **FIGURE [5]**.



FIGURE [5]: FORWARD DOOR BRACKET INSTALLED

- B. VERIFY THAT THE ROLLER ON THE DOOR BRACKET ASSEMBLY IS IN LINE WITH THE EXIT ROLLER OF THE DOOR OPERATOR. IF NOT ALIGNED PROPERLY, THE CHAIN WILL MAKE EXCESSIVE NOISE.

VI. CHAIN HOOK INSTALLATION

- A. ATTACH CHAIN TO THE SUPPLIED BRACKET **FIGURE [6]**.
- B. MOUNT THE BRACKET ONTO THE ROLLING MECHANISM OF THE DOOR USING THE SUPPLIED HEX HEAD BOLT **FIGURE [7]**.



FIGURE [6]: ATTACH CHAIN TO BRACKET USING PIN



FIGURE [7]: REAR HOOK INSTALLED

VII. CHAIN ASSEMBLY

- A. ROUTE CHAIN INSIDE THE VEHICLE THROUGH THE DELRIN BUSHING **FIGURE [8]**.
- B. ROUTE CHAIN AROUND ROLLERS ON THE MOTOR AS SHOWN IN **FIGURE [8]**.
- C. CLOSE DOOR COMPLETELY AND ROUTE CHAIN AROUND ROLLER ON THE FORWARD BRACKET **FIGURE [9]**.
- D. PULL CHAIN AND INSTALL THE SUPPLIED WASHER ONTO THE CHAIN **FIGURE [9]**.
- E. MAKING SURE THE THAT CHAIN IS NOT EXCESSIVELY LOOSE, ATTACH THE FORWARD, HOOK-END OF THE SPRING THROUGH THE CHAIN LINK BEHIND THE WASHER **FIGURE [9]**.
- F. ATTACH THE REAR, HOOK-END OF THE SPRING THROUGH EYELET ON THE DOOR BRACKET **FIGURE [9]**.



FIGURE [8]: CHAIN ROUTING ON THE D.O.



FIGURE [9]: SPRING AND WASHER CONNECTED TO CHAIN

VIII. LIMIT SWITCH BRACKET

A. OPEN DOOR HALFWAY.

1. Remove cover at lower door track.
2. Disable the door stop bracket at the lower door track by pulling and strapping the locking mechanism to the latch **Figure [10]**.

B. INSTALL THE SUPPLIED SWITCH ONTO THE BRACKET USING TWO 4-40 SCREWS PROVIDED **FIGURE [11]**.



FIGURE [10]: DISABLE DOOR LOCK MECHANISM

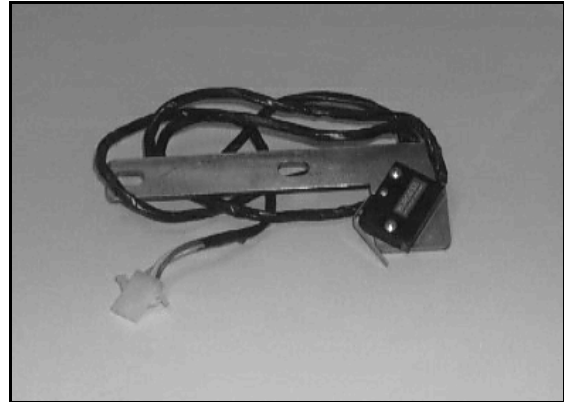


FIGURE [11]: LIMIT SWITCH BRACKET

C. INSTALL THE SWITCH RETAINER BRACKET:

1. Remove the two socket head screws **Figure [12]**.
2. Install the switch retainer bracket assembly as shown in **Figures [11] & [12]**.
3. Secure retainer bracket with two socket head screws and lock nuts **Figure [12]**.

D. RUN WIRING HARNESS UP TO THE DOOR OPERATOR:

1. Route harness behind the panel.
2. Plug the three pin Molex connector to the three pin Molex connector on the door opener harness.



FIGURE [12]: SWITCH RETAINER BRACKET IN PLACE

IX. ELECTRICAL ASSEMBLY

Connect the 9-pin Molex plug from the door operator to the 9-pin Molex receptacle on your Ricon lift. This enables you to use the same control pendant for both units.

X. COVER INSTALLATION

- A. INSERT RELEASE PIN FROM INSIDE TO OUTSIDE AND INSERT CLIP TO HOLD IT **FIGURE [13]**.
- B. PLACE COVER OVER DOOR OPERATOR AND SECURE USING SUPPLIED SCREWS **FIGURE [13]**.

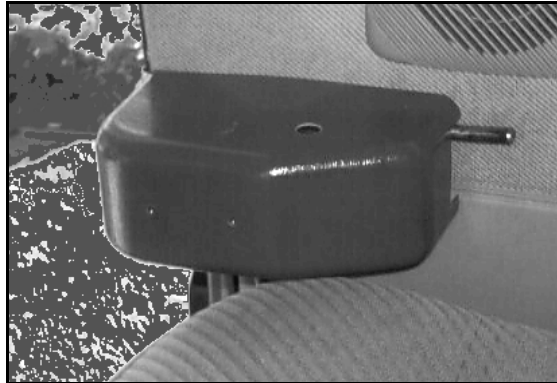


FIGURE [13]: D.O. COVER WITH RELEASE PIN INSTALLED

NOTES