



INSTALLATION INSTRUCTIONS
RDO2909 DOOR OPERATOR KIT #14466
INTERNAL SWINGING DOOR IN SIDE OF 92+ FORD VAN

■ Be certain that these supplemental instructions are read and understood completely before installation is attempted. You should also refer to 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 or shortages that have occurred during shipping must be made to freight carrier.

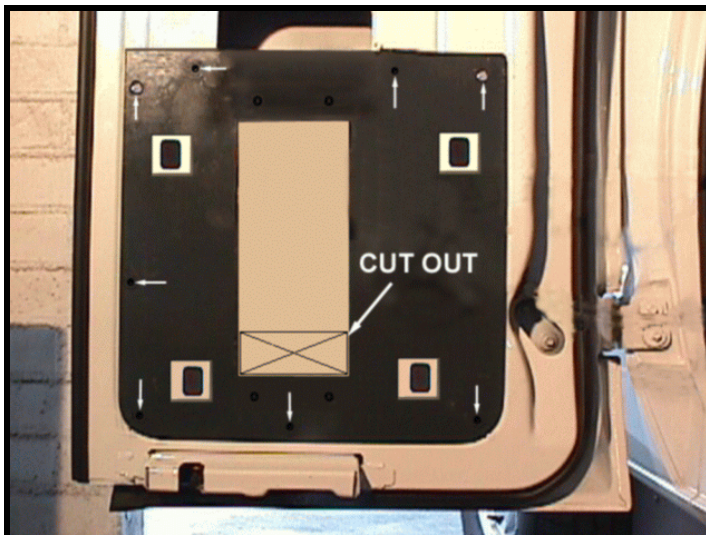
NOTE: Unless otherwise noted, “left”, “right”, “front” and “rear” references for lift and it’s installation are based on viewing installed lift from outside of van, unless a vehicle reference is noted in parentheses. Door operator is abbreviated D.O.

▲ CAUTION

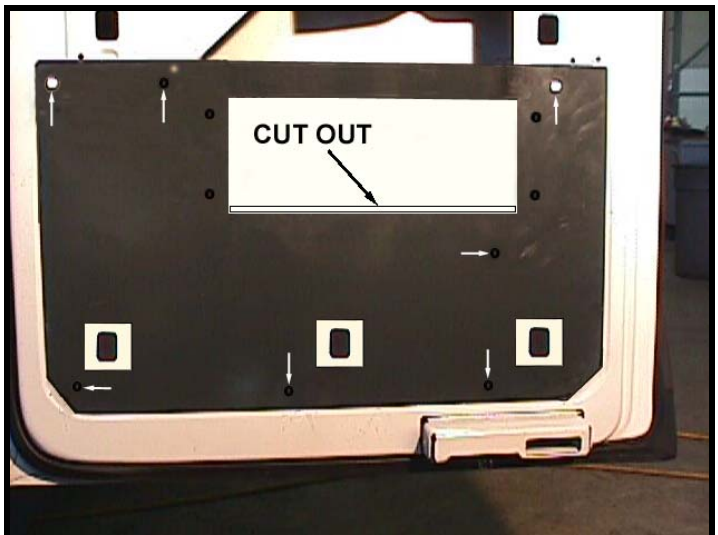
CHECK BELOW VEHICLE BEFORE DRILLING! DO NOT DRILL INTO FACTORY WIRING, HYDRAULIC LINES, FUEL LINES, FUEL TANK, ETC.

▲ CAUTION

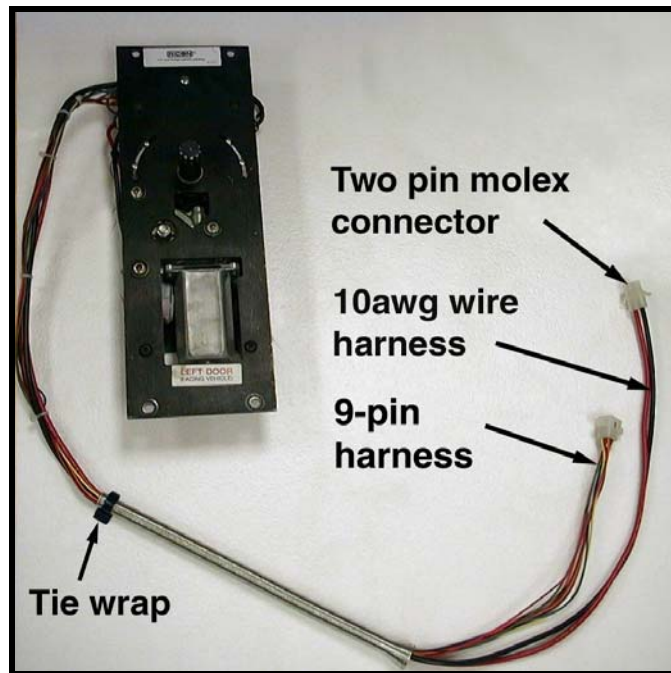
CUTTING THE VAN DOOR SHEET METAL CAN PRODUCE SHARP EDGES! WORK CAREFULLY WHEN NEAR THESE SHARP EDGES.



- LOCATE LEFT HAND MOUNTING BRACKET AS SHOWN
- DRILL EIGHT 9/32" DIA HOLES IN VAN DOOR PANEL WHERE SHOWN
- CUT OUT DOOR PANEL IN AREA SHOWN TO CLEAR D.O.

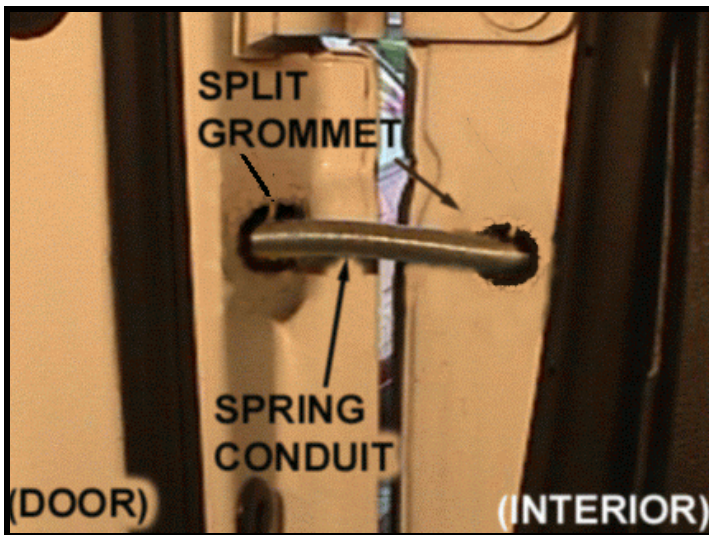


- LOCATE RIGHT HAND MOUNTING BRACKET AS SHOWN
- DRILL SEVEN 9/32" DIA HOLES IN VAN DOOR PANEL WHERE SHOWN
- CUT OUT DOOR PANEL IN AREA SHOWN TO CLEAR D.O.

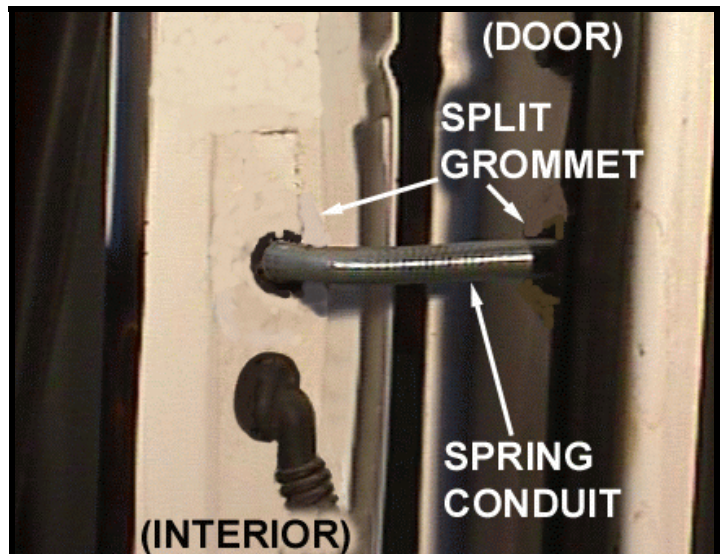


DOOR MOTOR ASSEMBLY

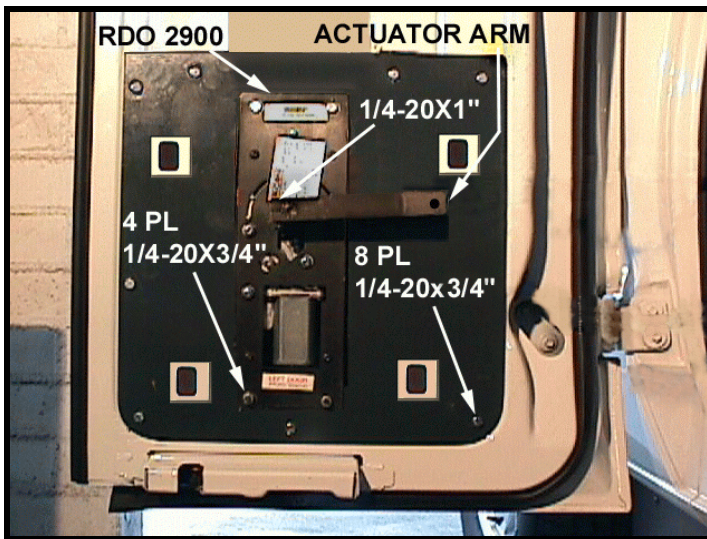
- INSTALL TIE WRAP AT END OF SPRING ON BOTH MOTOR ASSEMBLIES.
- NOTE 10AWG TWO WIRE HARNESS.



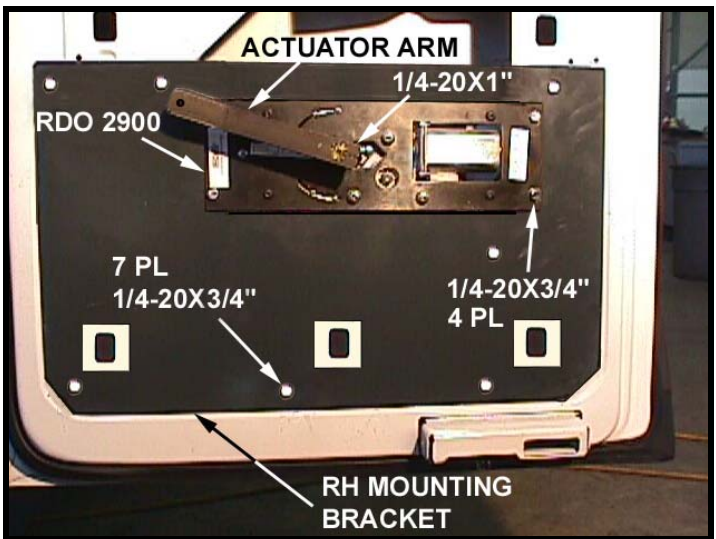
- CUT TWO 1" DIA HOLES IN LEFT DOOR WHERE SHOWN.
- ROUTE CROSS-OVER HARNESS, WITH SPRING CONDUIT, THROUGH JAMB AS SHOWN.
- INSTALL SUPPLIED GROMMETS AROUND THE SPRING AND INSERT GROMMET AS SHOWN.



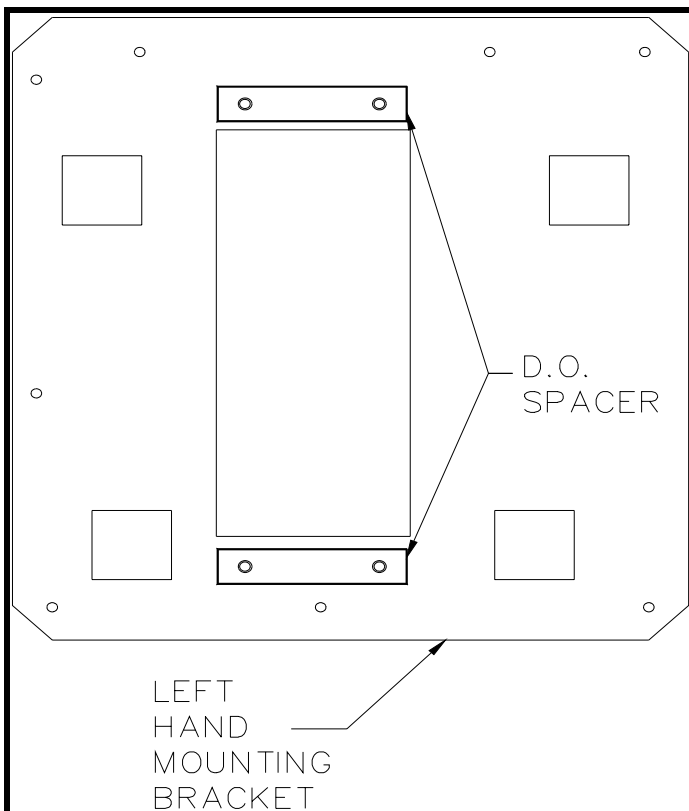
- CUT TWO 1" DIA HOLES IN RIGHT DOOR JAMB WHERE SHOWN.
- ROUTE CROSS-OVER HARNESS, WITH SPRING CONDUIT, THROUGH JAMB AS SHOWN.
- INSTALL SUPPLIED GROMMETS AROUND THE SPRING AND INSERT GROMMET AS SHOWN.



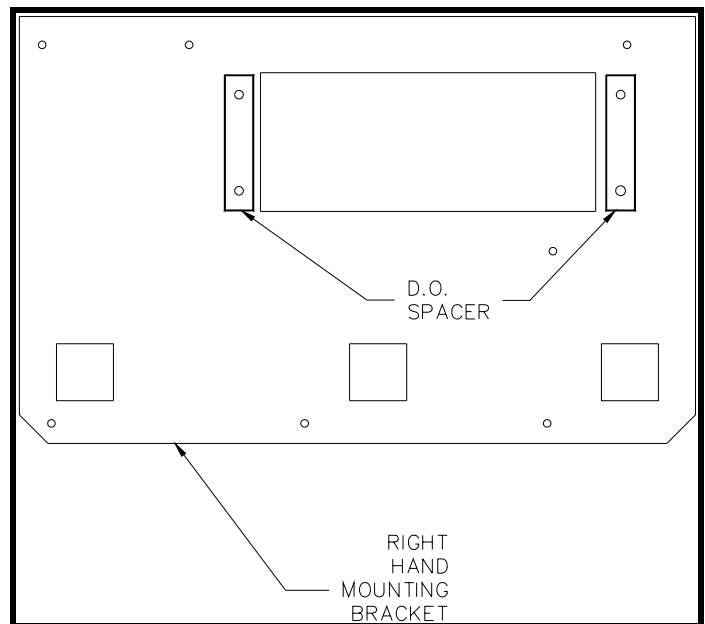
- FASTEN LH BRACKET TO PANEL WITH HARDWARE SHOWN
- FASTEN "LEFT" RDO 2900 (D.O.) TO BRACKET WITH HARDWARE SHOWN
- ATTACH ACTUATOR ARM TO D.O. IN POSITION SHOWN
- NOTE - INSTALLATIONS USING FACTORY INTERIOR DOOR PANEL WILL REQUIRE SPACERS (SUPPLIED) TO BE INSTALLED BETWEEN D.O. AND MOUNTING BRACKET



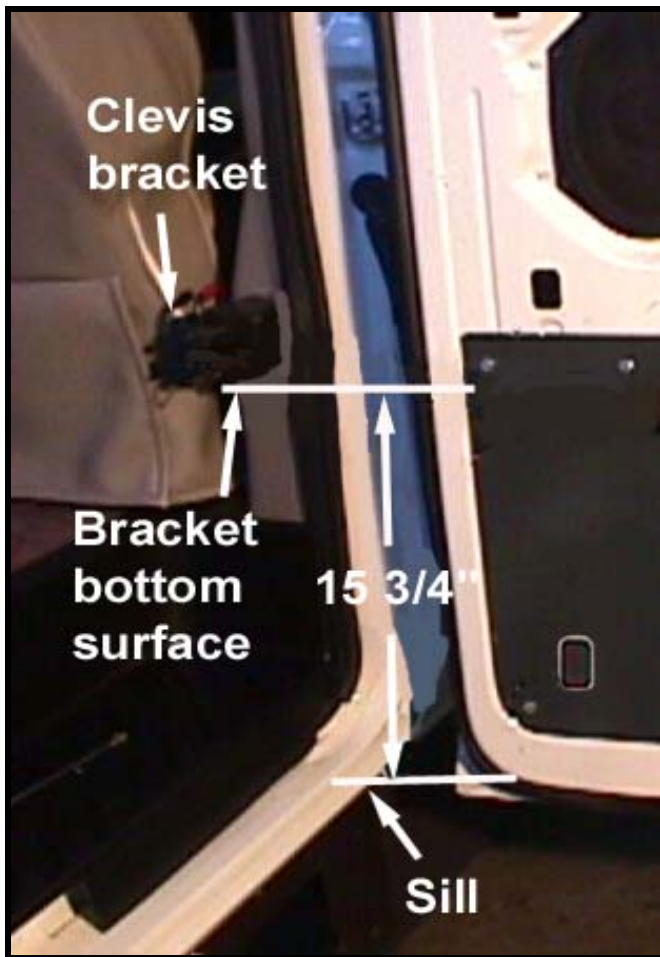
- FASTEN RH BRACKET TO PANEL WITH HARDWARE SHOWN
- FASTEN "RIGHT" RDO 2900 (D.O.) TO BRACKET WITH HARDWARE SHOWN
- ATTACH ACTUATOR ARM TO D.O. IN POSITION SHOWN
- NOTE - INSTALLATIONS USING FACTORY INTERIOR DOOR PANEL WILL REQUIRE SPACERS (SUPPLIED) TO BE INSTALLED BETWEEN D.O. AND MOUNTING BRACKET



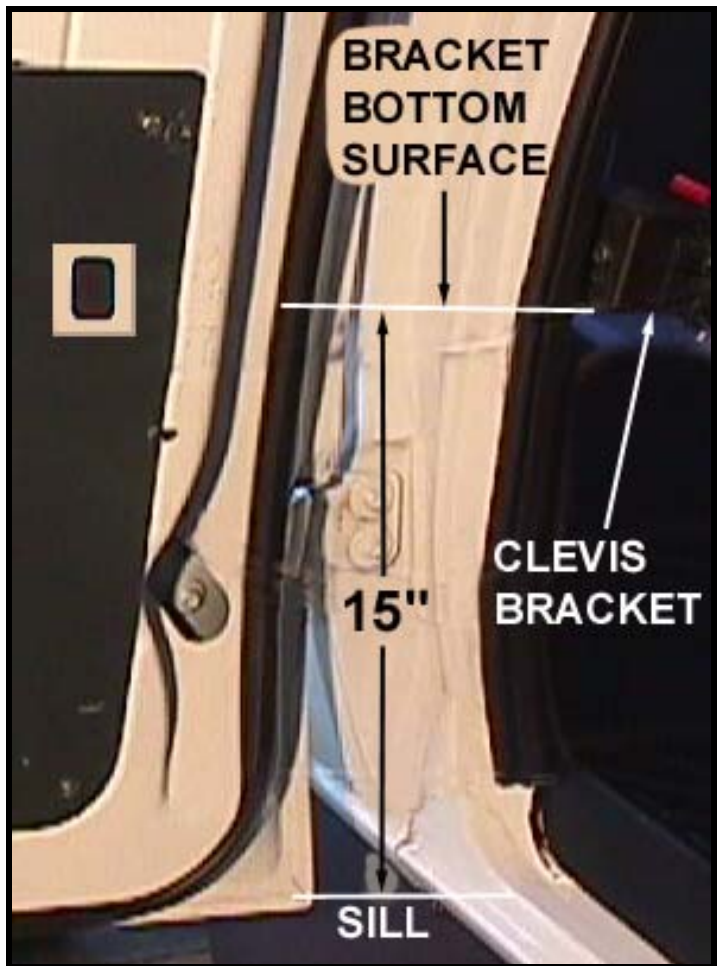
- FACTORY DOOR PANEL APPLICATIONS:**
- POSITION D.O. SPACERS BETWEEN D.O. AND LH MOUNTING BRACKET



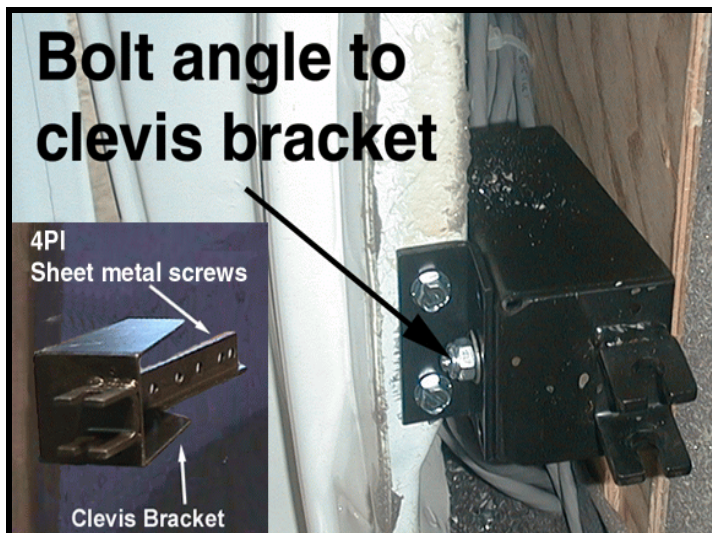
- FACTORY DOOR PANEL APPLICATIONS:**
- POSITION D.O. SPACERS BETWEEN D.O. AND RH MOUNTING BRACKET



■ LOCATE CLEVIS BRACKET AS SHOWN



■ LOCATE CLEVIS BRACKET AS SHOWN



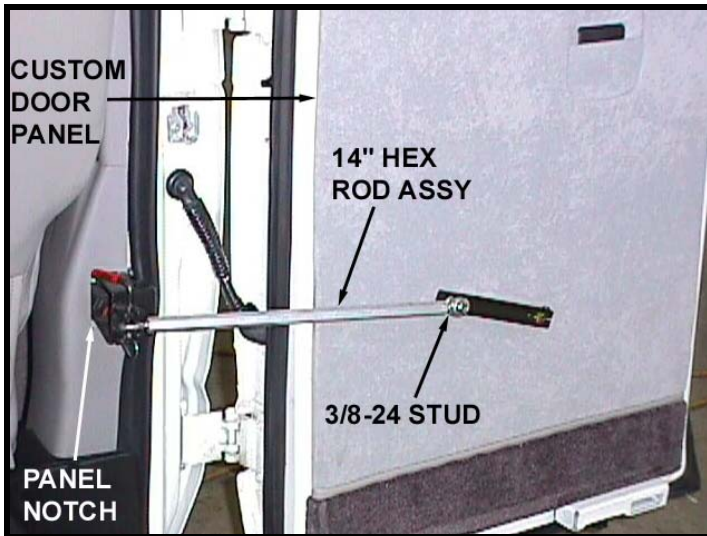
LEFT DOOR CLEVIS BRACKET:

- BOLT ANGLE BRACKET TO CLEVIS USING 1/4-20 HEX BOLT AND LOCK NUT
- FASTEN CLEVIS BRACKET TO VAN WITH HARDWARE SHOWN

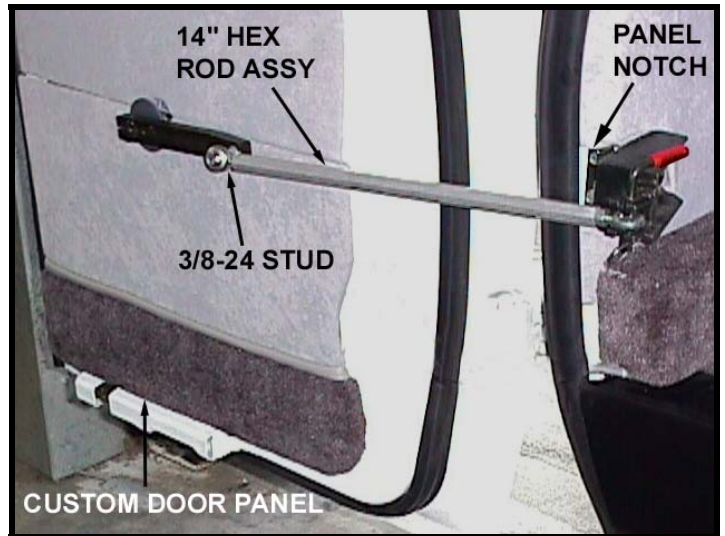


RIGHT DOOR CLEVIS BRACKET:

- DRILL THREE 9/32" DIA HOLES WHERE SHOWN
- FASTEN CLEVIS BRACKET TO VAN WITH HARDWARE SHOWN

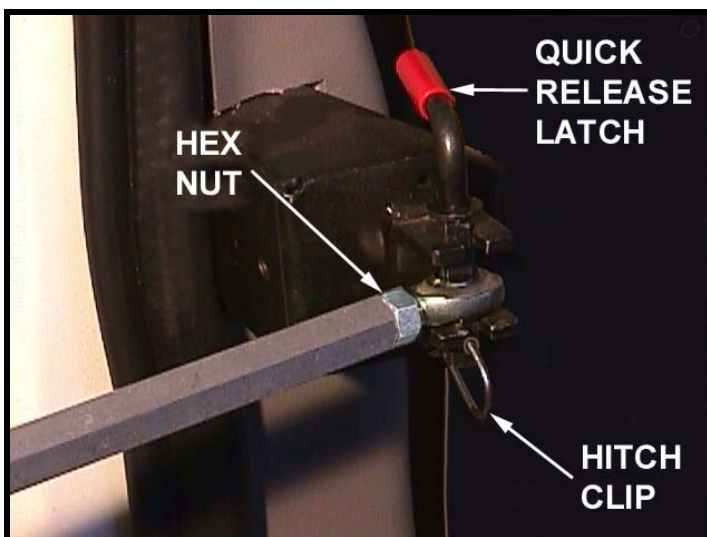


■ INSTALL 14" HEX ROD ASSEMBLY ON RIGHT DOOR WITH HARDWARE SHOWN

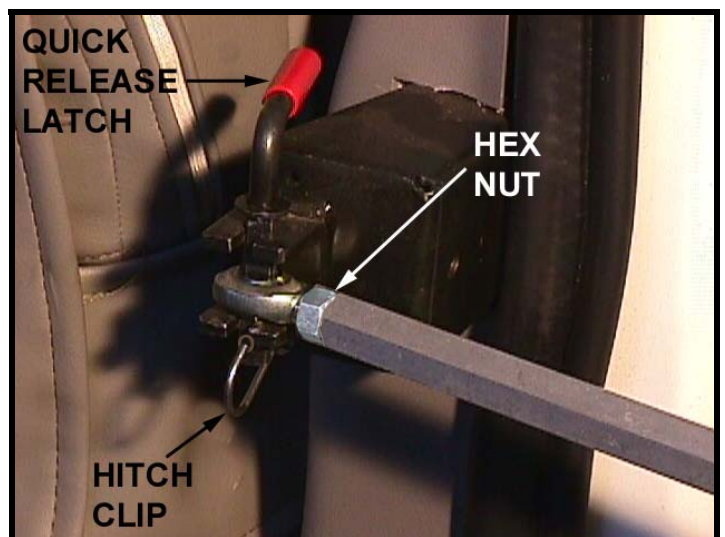


■ INSTALL 14" HEX ROD ASSEMBLY ON LEFT DOOR WITH HARDWARE SHOWN

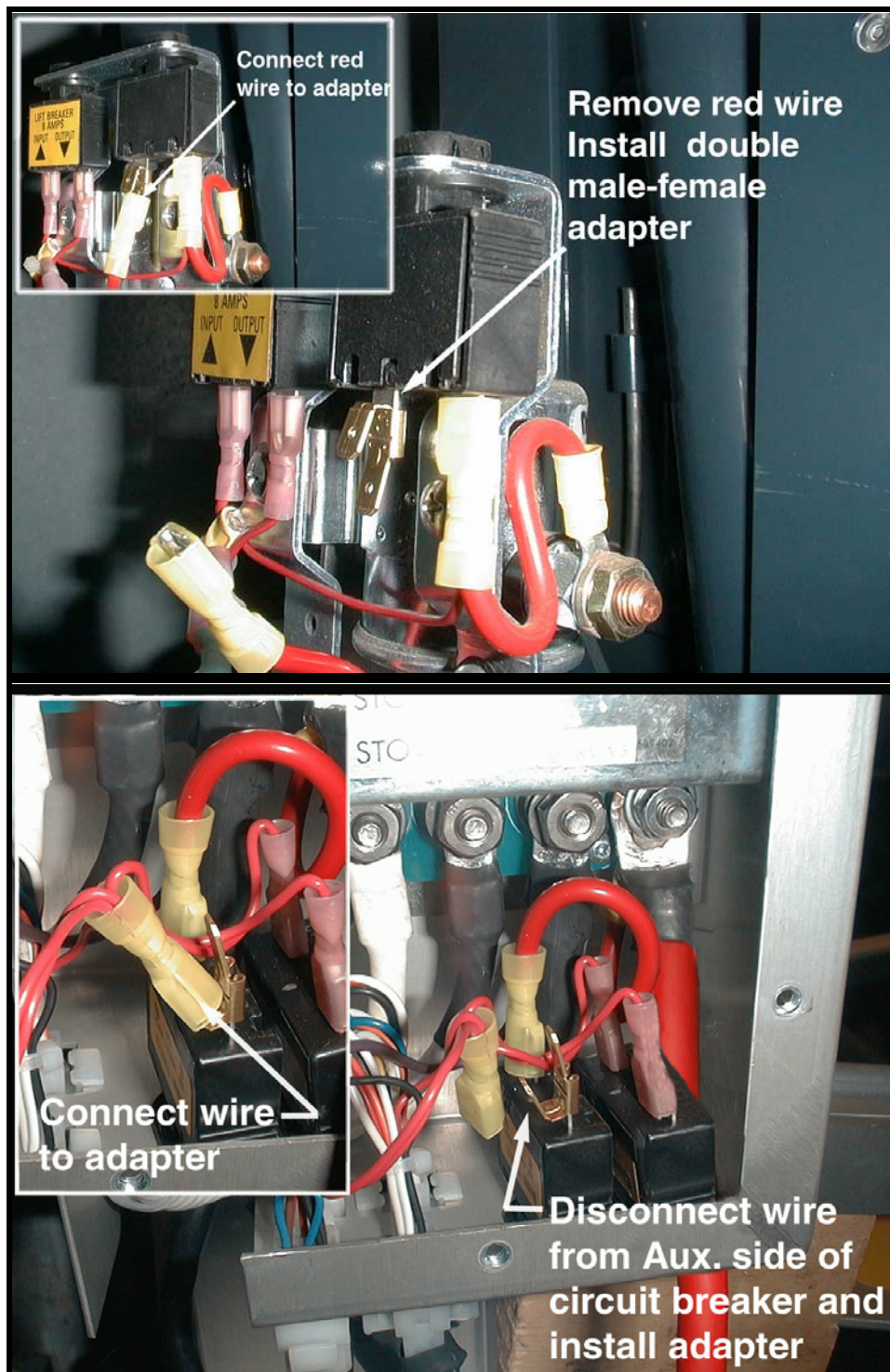
* SOME LIFT INSTALLATIONS WILL REQUIRE DOOR(s) TO OPEN FURTHER FOR PROPER LIFT OPERATION. ATTACH 14" HEX ROD ASSEMBLY USING OUTER THREADED HOLE OF ACTUATOR ARM IN THESE INSTANCES.



■ FASTEN 14" HEX ROD TO LEFT CLEVIS BRACKET WITH HARDWARE SHOWN



■ FASTEN 14" HEX ROD TO RIGHT CLEVIS BRACKET WITH HARDWARE SHOWN



TYPICAL S-SERIES AND UNI-LITE CIRCUIT BREAKER

- DISCONNECT WIRE FROM AUX SIDE OF 30AMP CIRCUIT BREAKER.
- CONNECT TERMINAL ADAPTER (DOUBLE MALE-SINGLE FEMALE) TO CIRCUIT BREAKER.
- RECONNECT WIRE THAT WAS REMOVED FROM BREAKER AND CONNECT 10AWG RED WIRE TO TERMINAL ADAPTER.

ELECTRICAL HARNESS ROUTING (BOTH SIDES)

1. Plug interconnecting harness to lift.
2. Connect 9-pin molex connectors at door pillars to interconnecting harness.
3. Connect 10awg harness to molex connector of left door opener.
4. Route 10awg harness to 30amp circuit breaker.
5. Connect red 10awg harness to 30 amp circuit breaker.
6. Connect black 10awg wire to suitable ground.
7. **Note that for right side door, 2-pin connector is not used.**

ADJUSTMENTS

1. Refer to the Service/Owner Manual Section 2 Page 6 Part 'C' Final adjustments.
2. Adjust as needed.

NOTES