

RACK AND PINION INSTALLATION

Optional rack and pinion for following models:
SL-45DC, SL-90DC, SL-100DC, SL-150DC & SL-175DC

MOUNTING GATE OPERATOR IN POSITION

1.- Mount the gate operator parallel to the gate with the face of pinion gear $7/8"$ away from the face of the gate where rack will be mounted (Fig. 1).

RACK INSTALLATION

1.- Bolt the 3 threaded mounting pins to each rack section. Position the pins at the end of the slot, away from the teeth. This is to allow adjustment to be made once welded to the gate (Fig. 2).

2.- Manually place the gate in closed position.

3.- Lay the first section of rack level against the pinion gear and weld the first rack mounting pin to the gate (Fig. 3).

4.- Slide the gate manually, making sure there is no resistance between rack and the pinion and weld the other two mounting pins to the gate.

5.- Add another rack section next to the previous one, using a piece of rack to join them together and perfectly keep teeth distance. Use C clamps to connect the racks while they are welded. Shown in Fig. 4

6.- Manually slide the gate and weld the mounting pins. Repeat step 5 until the gate has necessary rack.

IMPORTANT NOTES:

1. Check and make sure that during the gate travel all the rack sections don't exit or come off the pinion gear.
2. Only weld the mounting pins to the gate. Do not weld the rack sections to the pins. Rack needs to be free for future adjustments.
3. After the rack has been installed, it is advised to move the rack $1/16"$ away from the pinion gear. This to ensure a correct mating between rack and pinion gear (Fig. 5).
4. Do not lubricate rack or pinion gear.
5. Finally inspect the gate by sliding it from close to open positions and make sure there is no friction or resistance between the rack and pinion during travel.

FINAL NOTE:

SL-150DC only allows rack to be installed under pinion gear. The rest of the models can have the rack installed under or over the pinion. Also, the SL-150DC requires metal cover upgrade for optional rack and pinion.

