

OPERATOR AND RACK INSTALLATION

CP – STEEL REINFORCED PLASTIC RACK

1. Start with gate in closed position.
2. Put one end of rack section on the sprocket. Make it level and mark on the gate the center of the slot (Fig. 4).
3. Manually slide the gate so that the mark on the gate is reachable. Drill a hole on the gate and connect the rack to the gate using a self tapping screw (not provided). Make sure that the screw is centered in the slot for future adjustment.
4. Put the rack on the pinion and slide the gate so that the other end of the rack section is on the pinion, mark the center of the slot on the gate (Fig. 5).
5. Manually slide the gate, drill a hole on the mark and connect the second end of the rack to the gate using a self tapping screw (not provided).
6. The first section of the rack is positioned, use a third screw to secure the section (at least 3 screws for section have to be used).
7. Repeat steps from 2 to 6 to position other sections of the rack until proper length is reached.
8. It is suggested to use an additional section of the rack clamped on the section which is already connected to the gate and on the section to be connected to grant proper teeth pitch between different section (Fig. 6).
9. If needed, cut the last section to meet gate length.
Note: rack length must be longer than actual travel of the gate to accommodate limit switch brackets (I) (1' 6" approx. on each side).

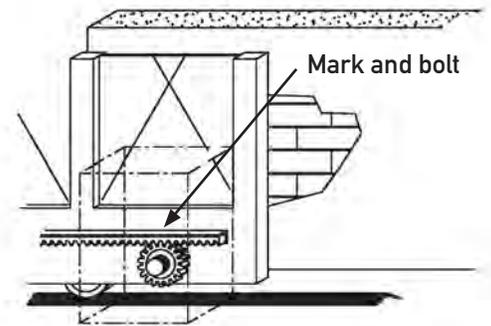


FIG. 4

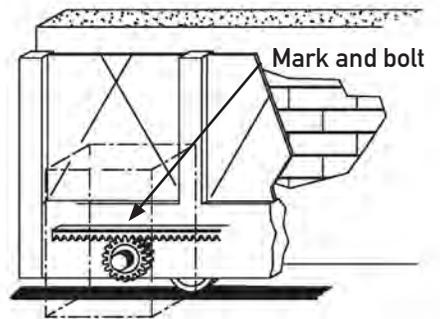


FIG. 5

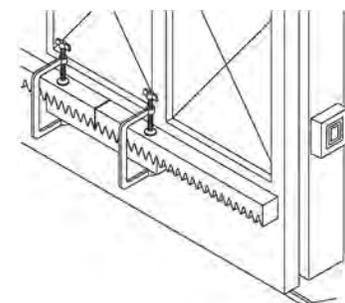
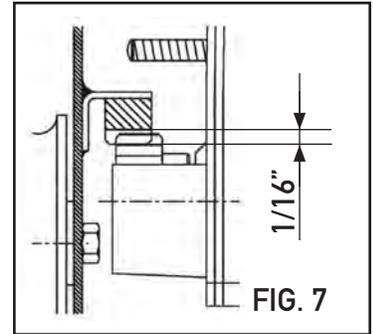


FIG. 6

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- Lower the operator using nuts so that the play between rack and pinion is between 1 and 2 mm (1/16") throughout the whole length of the gate (Fig. 7).
- Check that the gate runs smoothly throughout its whole length. Check that the play between rack and pinion is optimal throughout the whole length of the gate.
- Check that the mesh of pinion and rack is correct (Fig. 8), the rack teeth must engage the pinion teeth throughout their full thickness. If not, adjust the position of the operator by sliding it in required direction.
- If needed, position of the rack can be adjusted for each section changing the position of the screws in the slots.



CVZ – GALVANIZED STEEL ADJUSTABLE RACK

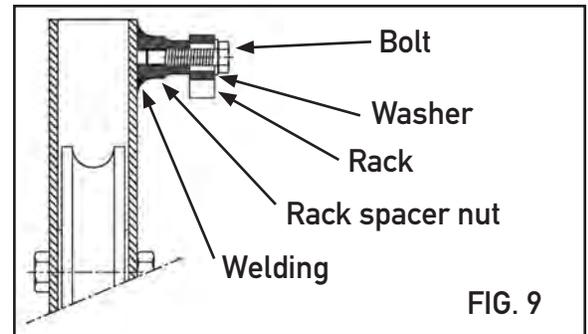
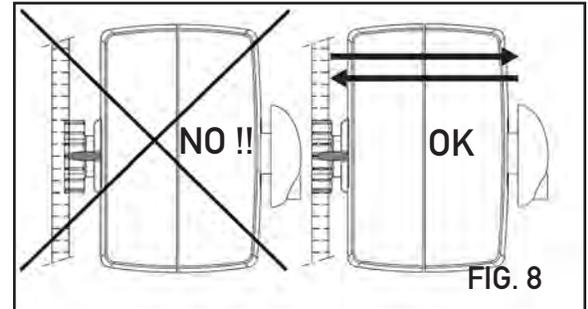
Install provided bolts, rack nuts and washers on each section of the rack.

Take care to tighten bolt and nuts at the center of each slot for possible future adjustment.

Proceed then the same way as CP rack for installation. Instead of bolting the rack on the gate, rack nuts have to be welded on the gate (Fig. 9).

In order to be able to rotate the rack, simply loosen the rack bolts.

Note: rack length must be longer than actual travel of the gate to accommodate limit switch brackets (l) (1' 6" approx. on each side).



STEP 3

- Position the limit switch brackets (l) so that the operator will stop at the desired position (the operator stops when the limit switch spring is pushed by the limit switch bracket) (Fig. 10). Limit switch brackets are generally positioned at the two ends of the rack.
- Inertia will drive the gate a little further. At least 1" between the gate and the positive stop has to be granted (Fig. 11). Not providing this clearance will result in possible jamming of the gearbox. A power operated sliding gate must never hit gate positive stops.
- If no positive stops are present they have to be installed on both sides.

