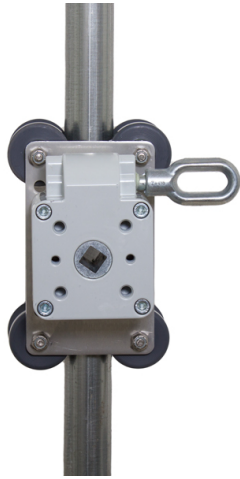




**ADVANCING**  
ALTERNATIVES

# GC13:1 13 to 1 Gear Crank w/ internal brake



The GC13:1 is a geared operator with an input loop, output port and internal brake.

The GC13:1, in combination with roll bar, a roll bar adapter, and guide pipe will enable the opening and closing of a curtain vent.

We recommend that the guide pipe and operator extend beyond the end wall of the structure by around 2", This will assure clearance that allows the curtain fabric to lay against the vent opening.

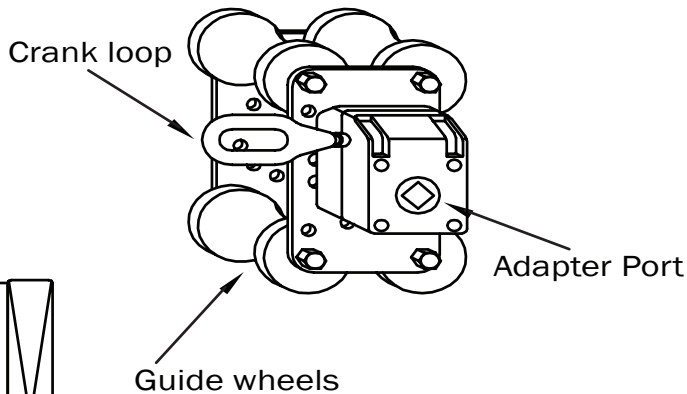
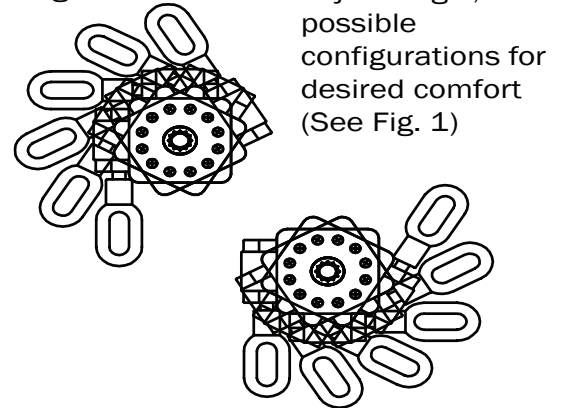
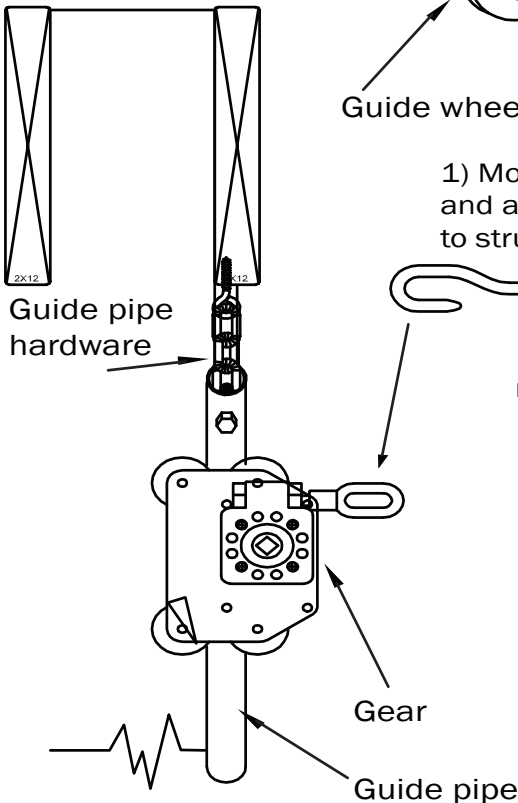


Fig.1



Remove bolts to adjust angle, 12 possible configurations for desired comfort (See Fig. 1)

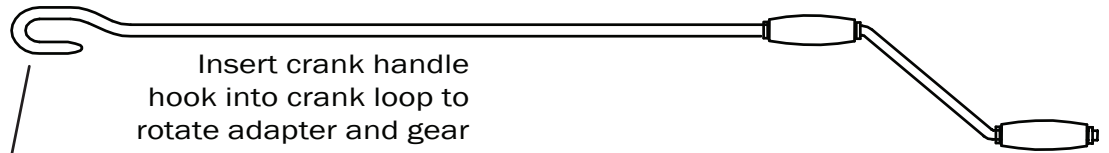
Fig. 2



1) Mount guide pipe, and associated parts to structure.

2) Fit guide pipe through gear guide wheels. (See Fig. 2)

3) Fit roll bar to adapter and adapter to gear's port.



Insert crank handle hook into crank loop to rotate adapter and gear

The square shaft of the adapter fits in the square port of the gear box (See Fig. 2)

Various adapters for different kinds of roll bar are available to be purchased from us (Fig.3).

Fig. 3



Fig.4

Guide pipe and guide pipe hardware

We recommend the Guide Pipe Extender Post be positioned above the top curtain clasp. (12" is typical)

**For rounded sidewalls**

Guide Pipe Extender Post

Guide pipe extension reduces guide pipe "kick out" as the operator and roll-bar travel the curvature of the structure.

Be prepared to try different mounting positions during installation.

Guide pipe extender is a 4' long post sold separately.

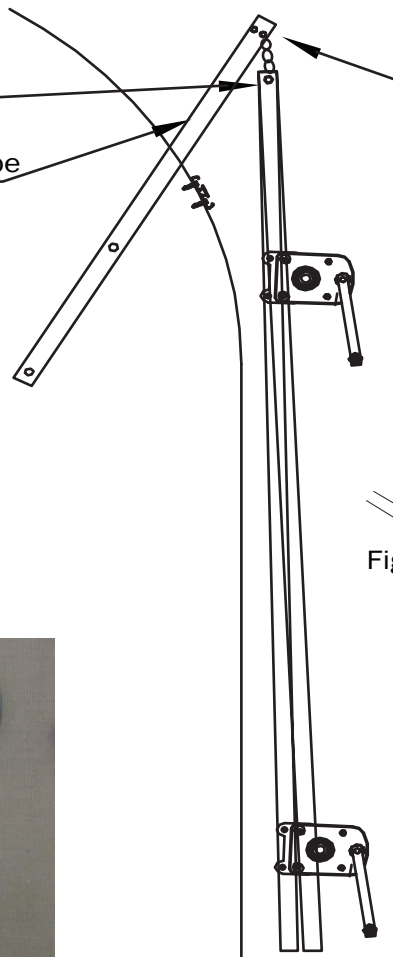
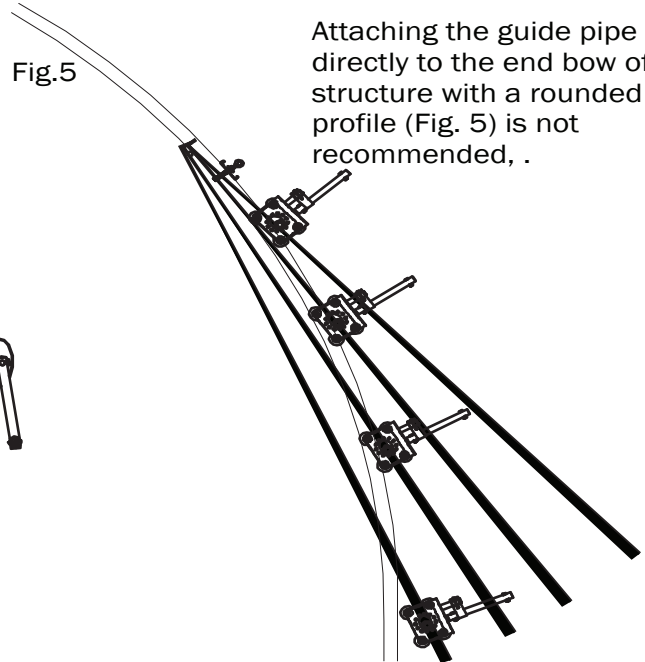


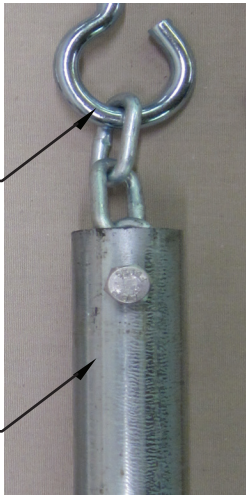
Fig.5

Attaching the guide pipe directly to the end bow of a structure with a rounded profile (Fig. 5) is not recommended, .



Guide pipe hardware

Guide pipe



Note in Fig. 4 that extending the guide pipe attachment point allows the guide pipe to hang perpendicular. This results in the guide pipe staying closer to the greenhouse during its various opening stages (Compared to in Fig. 5).

Remember to perform routine maintenance checks on all of your equipment, especially at the beginning and end of each season!



*For Technical Support:*

**1-877-546-2257**

**info@advancingalternatives.com**