



# ZAP Technical Instruction



The Smallest, Quietest & Safest Garage Door Operator in the World!



# The Door



- It is important that all doors work correctly.
- Not just because it is having a ZAP operator installed on it.
- Safety is a key responsibility of any technician and the company they work for.
- The concept of putting an operator on a door because it works poorly is not a solution to the problem, it is a masking of the symptom.
- That is why ZAP Operators are designed to automatically detect problems associated with a poorly working door.
- Safety is everyone's responsibility.
- But when it is ignored, it becomes YOUR liability.



- Does a door need to work perfectly?
- No, but they do need to work properly.
- Proper door operation and model selection is a key component in successfully installing ZAP Operators.

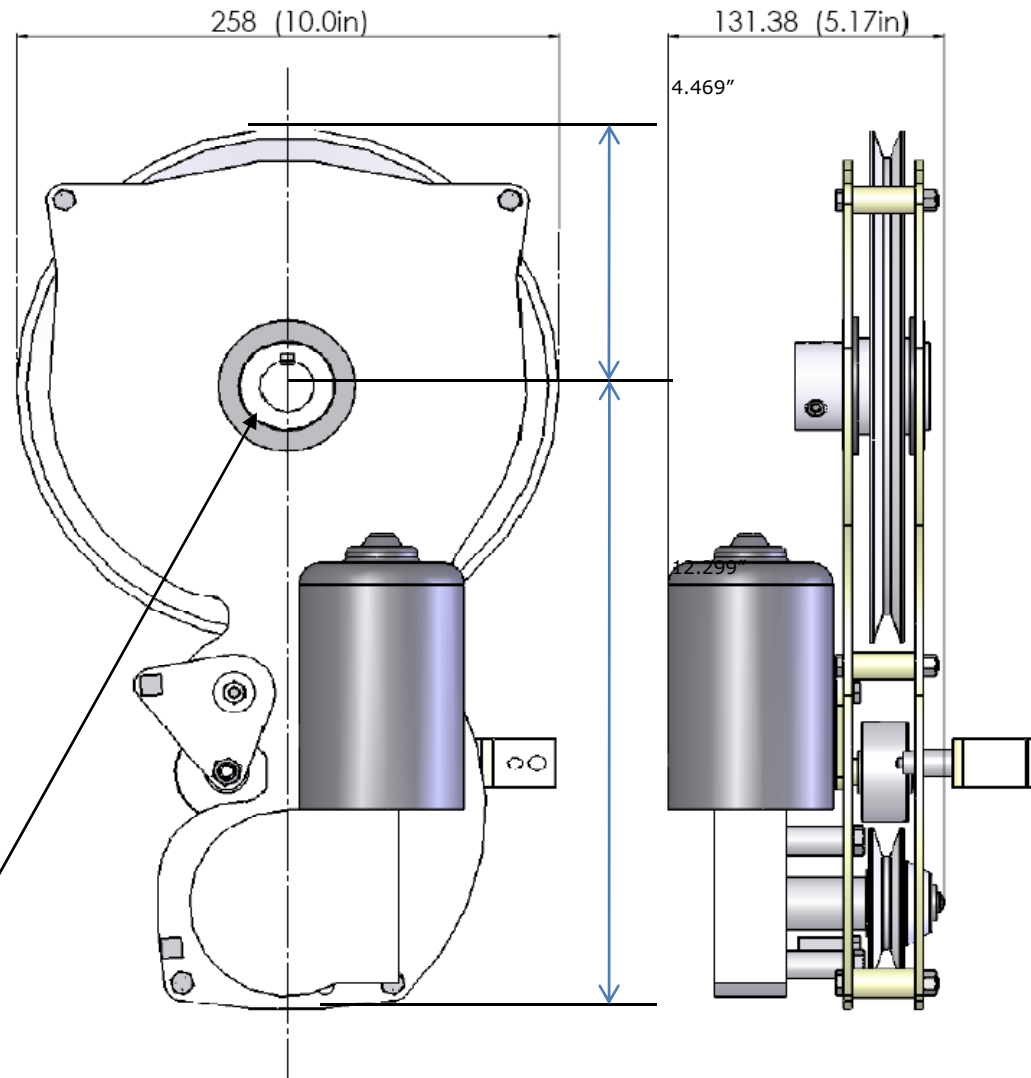


- Determine the door's size
  - Width and Height
- Consider the door's lift.
  - Is it high lift, vertical lift, standard lift or low headroom?
- Consider the door's weight
  - A full view aluminum weighs much more than an insulated pan door
- Consider the door's usage
  - How many cycles a day will it be performing?
- Consider the operator mount and the space required.
  - Standard mount, Off set, Inverted, etc.



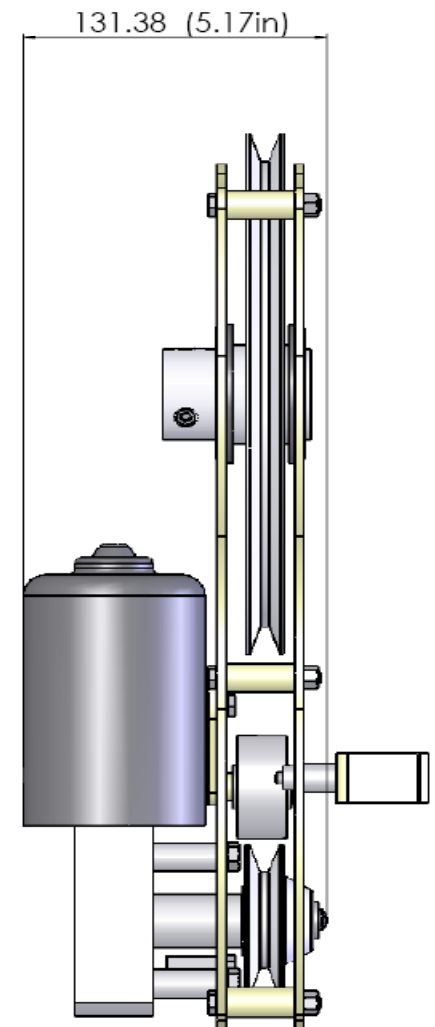
- Verify there is enough headroom to mount the operator.
- Every Operator has a technical drawing specifying the height required located in the technical specification section of the 2009 catalog.

Available with  
1 in. or 1.25 in. Bore  
Dia.





- Verify there is enough side room.
  - Most of our operators will fit within 6 “
- Consult the technical drawings in the 2009 catalog to verify your selected models dimensions.





- Shaft availability, How much torsion shaft is there?
  - Minimum 4.5"





- Check the operation of the door
- Operate the door manually.
  - Is it balanced well?
  - Does the door roll freely. Are there any points of binding
  - Vertical tracks in too tight against the jambs.
  - Vertical tracks in too tight against the rollers.
  - Horizontal tracks aligned properly /binding.
  - Top section too tight against header.
- If not, factor in servicing the door to a proper state of maintenance for your quote.



- Check the jambs and the sides of the track.
  - Is there room to mount the over-ride lever and Bowden cable assembly properly.





- Check the jambs and the sides of the track.
  - Are there any obstructions that prevent full Bowden cable tensioning or free operation of the tensioning system?





- Determine where you will locate the controller.
  - You are not required to locate the controller at the side of the door.
- Considerations:
  - Mounting surfaces available. Room to mount controller.
  - Power requirements- Power is required to be wired into the ZAP Controller
  - Distance- Required to stay within the reach of the provided ZAP motor wiring harness. ( 24')



- Locations to Mount.
  - Near the door on the same side of the door as the operator.
  - Minimum mounting height, 5' from the floor.
  - New restrictions coming in 2010 for UL 325 Commercial





- Locations to Mount.
  - Mounted high by the operator.
  - Requires wiring additional 3 button station





- Locations to Mount.
  - Mounted on the back of a dock control station.
  - Requires wiring additional 3 button station





- Locations to Mount.
  - Remotely located
    - Requires wiring additional 3 button station
    - Remember it is required to stay within the reach of the provided ZAP motor wiring harness. ( 24')