

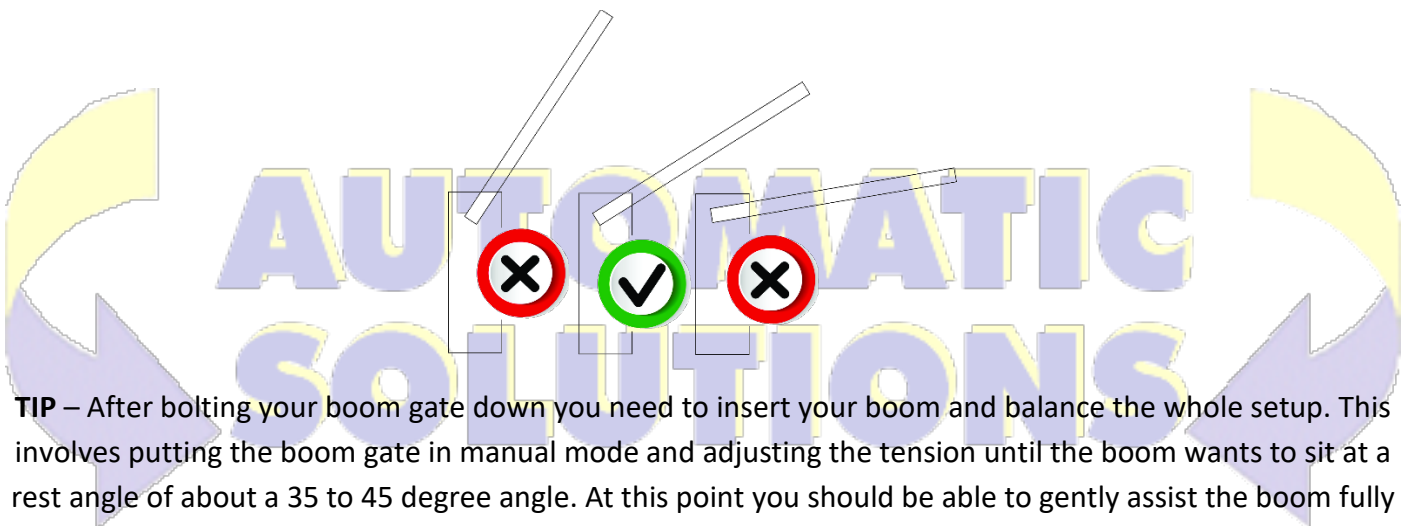
TIPS & TRICKS

BOOM GATE INSTALLATION



General order of installation –

1. Boom gates generally have three distinct install phases. The first is preparation - running your cables and preparing your hardstand. All accessories cables (except loops) should be shielded cable.
2. Your hardstand ideally will be 300mm wider and longer than the boom gate base and a good 600mm deep to prevent the boom gate from moving during operation. If the hardstand is new it is good practice and makes stage two a breeze if you use a base plate.
3. Stage two involves bolting down the boom gate and getting it balanced. Do NOT connect any accessories attempt to program or run the boom gate until the boom gate is balanced.



TIP – After bolting your boom gate down you need to insert your boom and balance the whole setup. This involves putting the boom gate in manual mode and adjusting the tension until the boom wants to sit at a rest angle of about a 35 to 45 degree angle. At this point you should be able to gently assist the boom fully up or down by hand.

TIP - If you have shortened the boom, balancing may involve adding some weight to the end of the boom to compensate. Example – You have shortened the supplied boom by one metre. That metre of boom might weigh one kilogram. To compensate you can insert an appropriate SHS or round tube that has a similar weight and fix it inside the end of your shortened boom. Note it must be fixed inside the end of the boom. Because you have shortened your boom you may need a little more than the one kilogram you removed. Trial and error until you achieve balance.

4. Once balance is achieved you are ready to program your boom gate. Refer to your manual for programming instructions but essentially this will involve teaching the control board the end stops and required force to open and close. If you have not balanced correctly the board may compensate but you will be shortening the life of your boom gate motor and control board so make sure you do not do this step until you have nice balance.

TIP – After balancing the boom you need to insert small loops (45mm length of light gauge single strand cable with both ends stripped about 8mm) into each of the normally closed (NC) safety circuits. These will be removed later if you add safety accessories.

5. Once you have your boom gate running nicely you can then add your accessories one at a time testing each for correct operation before starting the next one.

- **TIP** – If you are using solar power it is a good idea to program first with an inverter generator before changing over to solar.
- **TIP** – It is recommended that all booms over three metres be supported by either drop down leg or boom support stand.
- **TIP** – Boom gates typically get installed in commercial and industrial sites that also typically have dirty and unstable power. Use a CM90 filter to protect your installation and improve reliability.

