

Maintenance

No particular maintenance is required for the Motor Control Unit. However, check at least twice a year that the unit is in proper working order. Adjust if necessary the motor force. Make sure that the safety devices are working effectively. Check the tension on the chain. An adjustable bolt on the Front Assembly will tighten/loosen this tension.

Check once a month that the drive reverses when an object (40mm or higher) is placed in the door's path.

If you experience any problems, contact ORCA on Freephone 0800 ORCAHELP.

Technical Data

Model: GDO Tilt
Maximum door size: 5.5 metres wide; 2.4 metres high
Power input: 230-240V 50Hz
Motor: 24V DC 100W
Fuse: 3A 240V
Rated power input: 300W
Courtesy light time: 3 minutes
Working temperature: -20~+70C
Relative humidity: < 90%
Open and close force: 600N
Auto Reverse: returns to open position on meeting an obstruction
Built-In Receiver: Reception frequency: 433.22Mhz
Sensitivity: greater than 1V for correct receiver signal, (average range 50m with an aerial)
Decoding: rolling code
Transmitter power: 27A 12V Battery
Manual over-ride via service cord in event of power failure
ORCA has the right to modify it's product at any time without prior notice.

Don't forget these other great ORCA products . . .



SafetyAce

Fire Extinguisher

Great for the home, garage, vehicle, caravan, boat. A small sized extinguisher that packs a powerful punch.

Designed for class A, B and E fires, the SafetyAce is just what you need!

Cat. OSA-FE



Accessories:


The ORCA GarageAce has a number of optional accessories available to enhance the functionality of your GarageAce. Consult your retailer for details on . . .

Battery Back-up Part No. OGA-BBU
If the power goes off, the GarageAce can be operated manually from the inside – but with a battery back-up you can still operate the door from the comfort of your car!

Photo Safety Beam Part No. OGA-PSB
If you have young children around, the safety beam will protect them when the door is closing. Perfect for peace of mind.

Outside Disconnect Mechanism Part No. OGA-ODS
A key-lock mechanism that operates the manual bypass from outside the door. Great for garages where there is only one entrance.

Remote Control Transmitter Part No. OGA-RCU
Additional or replacement units are always available.



GarageAce

Installation Instructions & Owner's Manual

Garage Door Opener for Tilt Doors and Sectional Doors only.

Thank you for purchasing the ORCA GarageAce. The unit is easy to install and provided these instructions are followed, will provide many years of smooth, trouble-free operation.

The photos at left are provided to help you identify the fastenings supplied. In addition you will need appropriate screws to attach both the Front Assembly Bracket and Mounting Brackets to the garage framework.

Warning: This opener is not to be used as a solution for hard-to-open doors. The garage door must be properly balanced and easy to open manually before installing the ORCA GarageAce Garage Door Opener.

Important Information

Do not allow children to play with door controls.
Keep remote controls away from children.

Watch the moving door and keep people away until the door is completely opened or closed.

When using an electrical appliance, basic precautions should be observed to reduce the risk of fire, electric shock, or injury:

- Before connecting the unit to the power supply, make sure the voltage indicated on the appliance corresponds with the voltage in your garage. Otherwise, contact your dealer and DO NOT use the unit.
- Use only as described in this manual. Use only manufacturer's recommended accessories.
- Do not use extension cords or outlets with inadequate current carrying capacity. Care should be taken to arrange the power cord so that it cannot be pulled or entangled.
- Never disconnect by pulling the cord; grasp plug and pull to disconnect.
- Close attention is necessary when installing or operating near children or pets.
- Do not handle plug with wet hands.
- To protect against fire, electric shock or personal injury, do not expose cord or electric plugs to water vapours or other liquids.
- Do not use the appliance if it appears damaged. All repairs, including replacement of the power cable, must only be carried out by the authorized service centre.
- Use caution when operating the manual release with the door open since the door may fall rapidly due to weak or broken springs, or a door not properly balanced.
- Frequently examine the installation, in particular cables, springs and mountings, for signs of wear, damage or poor balance. Do not use if repair or adjustment is needed since a fault in the installation or an incorrectly balanced door may cause injury.

Read all instructions carefully.

Cat. OGA-GDO


IMPORTANT SAFETY INSTRUCTIONS

Warning:


It is vital for the safety of persons to follow all instructions.

Incorrect installation can lead to severe injury.

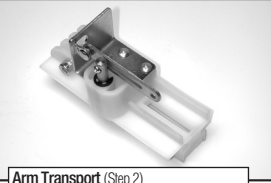
Save these instructions.




Front Assembly Bracket (Step 1)




MCU Brackets & Nuts (Step 2)




Arm Transport (Step 2)



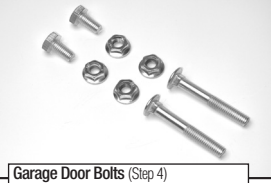
Mounting Bracket Slider Bolts (Step 3)




Manual Bypass Cord (Step 4)



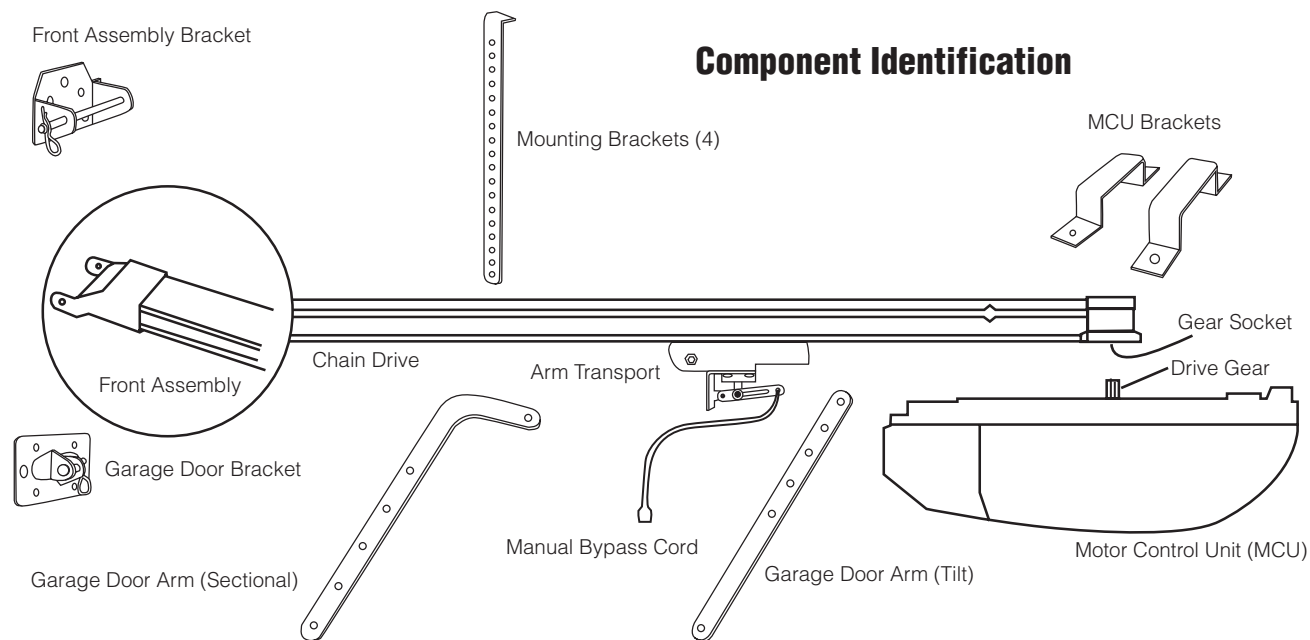
Garage Door Bracket (Step 4)



Garage Door Bolts (Step 4)

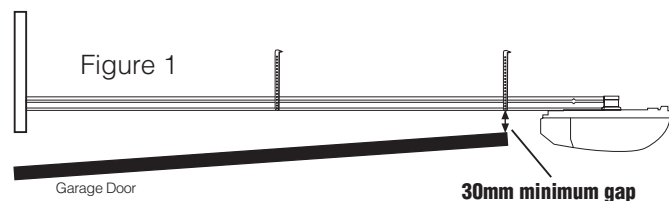


Remote Control x 3 (Step 6)



Installing the Orca GarageAce

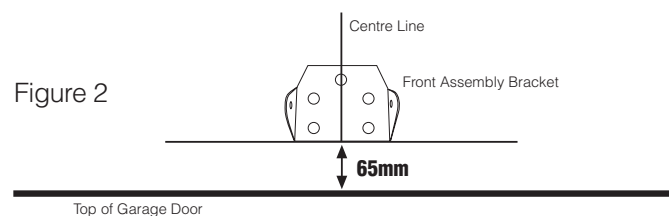
Preliminary: The ORCA GarageAce is positioned along the garage rafters central to and above the path taken by the garage door when it opens and closes (Figure 1). There should be a minimum gap of 30mm between the bottom of the Chain Drive and the top of the Garage Door at its closest point. The Mounting Brackets allow for considerable height adjustment but please make sure the correct positioning is possible before you begin. Additional timber braces may need to be installed to attach the Mounting Brackets.



Before installing the drive, remove all unnecessary ropes or chains and disable any equipment, such as locks, that are not needed for powered operation. It is also important to check that the door is in good mechanical condition, is correctly balanced and that it opens and closes properly. Close the door before you begin.

Step 1: Install the Chain Drive Front Assembly Bracket

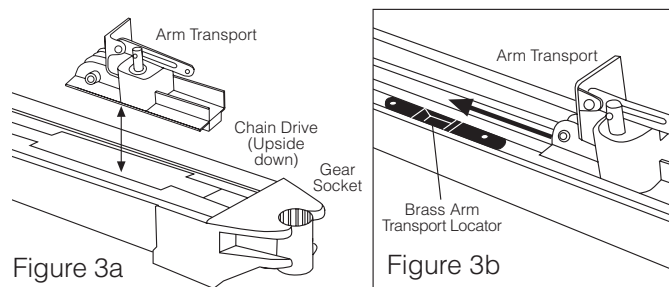
(Figure 2) Measure the garage door width and mark the centre. Using a spirit level, extend a vertical line above the top of the door on the inside of the front wall. Measure approx. 65mm from the top of the door upwards. Mark a horizontal line. Locate the Front Assembly Bracket. Position this so that it is centred on your vertical line and the bottom (non-tapered) edge of the bracket is sitting on your horizontal line. Screw into place (screws not supplied). **Important: Bracket must be attached to solid timber or masonry.**



Component Identification

Step 2: Attach the Arm Transport and Motor Control Unit

Slip the Arm Transport Unit into the gap at the rear end of the Chain Drive (Figure 3a). Be sure it faces the correct way – the metal arm faces backwards. Slide the Arm Transport along until it clicks into the brass Arm Transport Locator and locks in place (Figure 3b). Push on the Arm Transport so that the whole chain moves and slide along until the Arm Transport is approximately half way along the Chain Drive.



Using the slider bolts supplied slide **two bolts** into the Bolt Entry gaps on **each side** of the Chain Drive.

(Figure 4) Attach the Motor Control Unit (MCU) to the end of the Chain Drive, ensuring that the Drive Gear sits properly in the Gear Socket at the end of the Chain Drive. There are two MCU Brackets, one narrower than the other. Fit the wider one over the bolts closest to the Drive Gear and the narrower one over the other set of bolts. **It is important that you fit a spacer nut on each of these bolts before mounting the brackets to reduce excess tension on the MCU.** Using the nuts provided, secure the brackets in place.

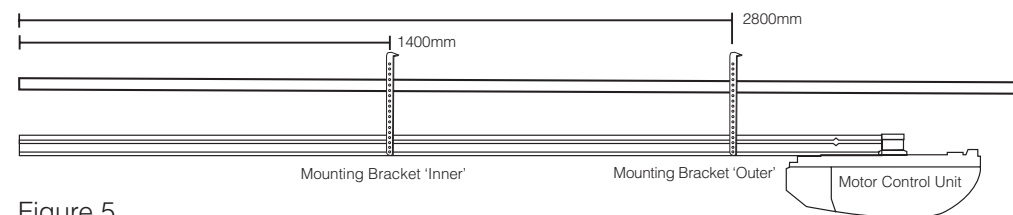
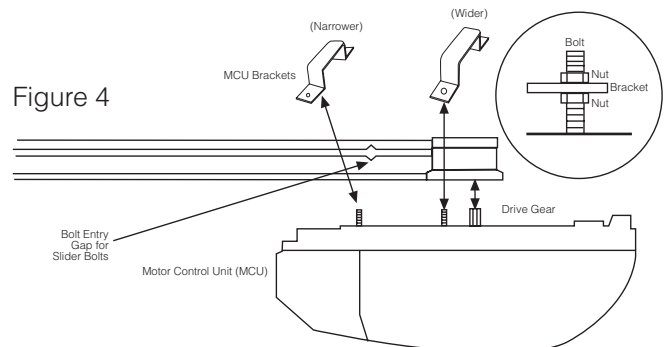


Figure 5

Step 3: Mount the Assembly

Carefully position the Chain Drive and MCU assembly on the floor, with the MCU furthest away from the door. Lift up the other end (with the nylon bracket) and secure to the Front Assembly Bracket, sliding the bolt through both sets of holes and securing the cotter pin on the outside.

(Figure 5) there are four Mounting Brackets for securing to the rafters, with one pair ("inner") approx. 1400mm from the front wall and the second pair ("outer") approx. 2800mm from the front wall. Mark these distances on the rafters for easier positioning later.

Using the **slider bolts**, secure first set of these to the inner Mounting Brackets, the second set to the outer Mounting Brackets, using the nuts provided.

Lift up the assembly and position the outer Mounting Brackets over the marks made previously and screw into place, **making sure the Chain Drive is level**. Secure the inner Mounting Brackets in place, once again using your marks as a guide.

Excess overhang on the Mounting brackets can be either cut off or the brackets bent upwards to remove any hazardous overhang.

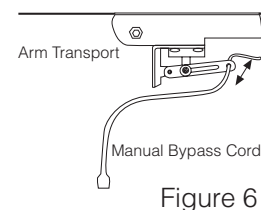


Figure 6

Step 4: Attach the Door.

(Figure 6) If it is not already in place, attach the Manual Bypass Cord to the nylon Arm Transport. This should be at a reachable height of less than 1.8 metres. Pull this down to free up the transport and slide it close to the door.

Choose the appropriate Garage Door Arm for your door type (Figure 7). Bolt into place on the Arm Transport. Attach the Garage Door Bracket to the other end. Position this bracket against the top edge of the garage door (and directly below the Front Assembly Bracket) and bolt or rivet bracket in place on the door (some bolts are supplied for this purpose).

Move the door so that the Garage Door Arm and Arm Transport assembly slide along until the Arm Transport once more locks into the Arm Transport Locator.

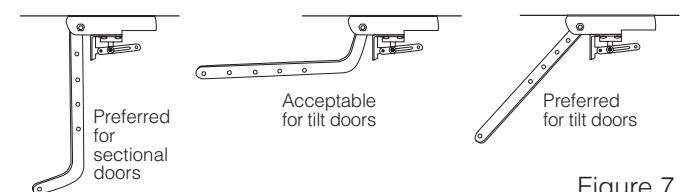


Figure 7

Step 5: Connecting the Electrics

In the top of the MCU are a double set of wires, a single wire and an outlet cord. The double set is for attaching an optional battery back-up (not supplied). This can be tucked out of the way. The single wire is an antenna for remote control operation. Leave this hanging free.

Plug the outlet cord into a convenient outlet. Ideally this will be one installed at ceiling level but an extension cord may be used to reach to an existing outlet. All cords must be tied up neatly to avoid any chance of snagging, pulling or entangling.

Step 6: Program the Unit

Make sure the unit is plugged in. Locate the four buttons on the base of the Motor Control Unit – labelled K1, K2, K3, K4. These will be used to program the unit.

Setting the open and close positions:

- Press and hold K1 until the LED displays the letter L.
- Press K1 button and hold, the door will travel to the opening position, release the button when the door has reached the desired position.
- If the door has over-run its position, press K2 button to move the door downwards. Adjust the position by pressing K1 and K2 button.
- Press and hold K3 button to confirm open position. The LED will now display the letter d. It is now time to set the closed position.
- Press and hold the K2 button, the door will travel to the closing position, release the button when the door has reached the closed position.
- If the door has over-run its position, press the K1 button to move the door upwards. Adjust the position by pressing K2 and K1 button.
- Press the K3 button to confirm. **The door will now open and close** as the force requirements are set.
- The door is now set for normal operational mode.

Setting Force Adjustment:

Normally the force settings are automatically set and adjustment is not necessary, however the force can be adjusted for a special purpose.

- Press K2 button and hold, the LED will display a setting number from 1 to 9, release the button, it is now in force adjustment state.
- Press K2 to increase the force one degree, and press K1 to decrease one degree. Maximum degree is 9 and the minimum is 1.
- Press K3 to confirm.

Programming the Remote Control (Transmitter):

The supplied Remote Control units can be programmed for any number of purposes. Although the unit has four buttons, only one is needed to operate the GarageAce. The same button will open and close the door. If you have other devices (such as a burglar alarm) that can program a remote control, use the other buttons for this purpose.

- Press receiver program button, K4 and release until the LED displays a dot. Press the preferred button of Remote Control (Transmitter) then release and press again. The dot will flash to confirm the code.
- Repeat step A for each Remote Control.



To delete all stored codes, press and hold K4 for 8 seconds until the dot turns off. All stored codes have now been deleted.