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Garden & Pond kit M10 Roadmap

Planning
Proper preparation is important. First make a sketch of your fence and determine whether you have enough materials to make the fence. Follow the steps below for a fast and successful installation of your electric fence.

Contents of the kit
(A) 1 pc. Electric fence device M10
(B) 10 pcs. Plastic fence posts (terra)
(C) 25 pcs. Ring insulators
(D) 1 roll 100m Vidoflex (conductive) wire (green)
(E) 1 pc. Earth pin 0.5 meter including 3 meter cable.
(F) 1 pc. Fence connection cable with clip and ring eye
(G) 1 pc. Warning sign
(H) 4 pcs. Vidoflex connector

Determine the type of fence

We distinguish two types of electric fencing,
It’s important to know that a shock is only felt when the animal touches the earth at the same time as it touches the electric fence, as this completes the circuit.

1. The basic system:
This system is easy to build with (plastic or wooden) posts that are placed in the earth.
The wires in the fence are connected to the electric fence device thanks to a fence connection cable. The earthing device is grounded thanks to an earth pin in the ground.
With simultaneous contact of the wire and the ground underneath, the circuit is closed and a shock will be felt.
For the explanation of this type of installation, go to:
Part 1 – Electric fence for garden, yard, ponds or around the aviary in this manual.

2. A plus/minus system:
This system is needed when the wire in the fence is placed at a higher height, such as a fence on a barrier, wall or in the gutter.
If you place a wire over a fence, an extra wire will always have to be placed for grounding, also known as the Plus/Minus system.
In such a system, the wires in the fence are connected alternately directly to the electric fence device. The placement of an earth pin isn’t necessary in such a system.
As soon as at least one plus and one minus wire are touched simultaneously, the circuit will be closed and a shock will be felt.
For the installation explanation of such a system goes to:
Part 2 – Electric plus/minus fence on (garden) barrier or wall

3. A combination of both systems:
A combination of both systems is also possible, of course, follow both the instructions in part 1 and the instructions in part 2 of this step-by-step plan.
Part 1—Electric fence for garden, yard, ponds or around the aviary

Step 1—Placing the posts
See the image above for further reference of the articles mentioned in this step-by-step plan. Determine the location of your desired fence and place a plastic pole (B) in the earth every 4 metres.

**Tip**: To make the fence extra stable, place a (small) wooden pole (X) in the ground as the starting and finishing pole. You will find a suitable wooden pole at your local garden centre or hardware store. If you use a wooden post as a start and end post, screw the supplied ring insulator (C) into the post at the desired wire heights. Your fence starts and ends here.

Step 2—Determine the desired height of your fence
We recommend a 2-wire fence for small dogs, a 3 to 4-wire fence for large dogs and a 3-wire fence for cats. The distances between the wires depend on the dog breed, between 15 cm and 35 cm, and between 15 cm and 20 cm for cats. You will find the average that is often applied to dog and cat fences below.

![Recommended Wire Heights for Dogs and Cats](image)

**Recommended Wire Height for Dogs**

**Recommended Wire Height for Cats**

We recommend installing at least 2 wires for shielding an aviary or pond. The wires should be mounted respectively 20 cm and 40 cm from the ground.

Step 3—Assemble the wire
Now that all posts are in place you can attach the wire (D).

1. Unroll the wire for approximately 25 cm and make a loop at the beginning of the wire.
2. Close the loop using the supplied Vidoflex wire connector, (H) as shown in the illustration here.
3. If the first post is a plastic post (B), hook the loop of the wire to the desired wire height behind the plastic wire holder.

In case you have placed a wooden starting pole, hook the loop into the eye of the first ring insulator (C1) which you have attached to the desired wire height in the wooden pole.

4. See figure step 1, unroll the wire towards the next plastic post (B) and place the wire in the wire holder, at the same height, repeat this until the end of the fence.

At the end, insert the wire through the ring insulator eye on the end post (B2) and insert the wire to the upper ring insulator for the next wire height. Follow the method and direction according to the arrows in the image.

If you use the plastic post as the end post, hook the wire into the wire holder and bring the wire to the upper wire holder (B3) and then to the adjacent post again.

Do not cut the wire but guide the wire through the ring insulator or wire holder to the next wire height and then, via the plastic posts, back to the starting post, continue this process for each post and next wire height.

Hook the wire through a loop attached with a Vidoflex wire connector in the last insulator or wire holder, do not tighten the wire too much here, hand tight is sufficient.

Your fence is now ready to be connected to the electric fence device.

**Step 4—Installation of the electric fence device**

Correct installation is essential for proper, functional and safe operation of your electric fence. The electric fence device (A) should be placed near a power outlet and the fence, but always in a sheltered environment such as a shed or under a roof and always protected from direct weather.

**Warning!** Do not connect the device to the power outlet yet.

**Step 5—Connecting the earth pin and grounding**

The supplied (steel) grounding wire (approximately 3 m) for attaching to the earth pin (E) and the connection cable to the fence (F) is specially intended to establish the connection between the electric fence device, the fence and the earth pin.

**Tip:** If the supplied cables are too short, you can order the ‘grounding cable’ specially designed for this through the gallagher.eu webshop. (e.g. item no. 065028, Grounding cable 1.6 mm 10 m on a roll.)
Grounding of the Electric Fence Device
Loosen the left button with the green cap at the bottom of the electric fence device. This is the button with the Earth symbol above it.

Remove one of the two rings behind the button and place the ring of the steel grounding cable (E) over the threads of the electric fence device. Now replace the ring and then turn the knob on the thread. Firmly tighten the knob (hand-tight).

Proper earthing is necessary for the proper functioning of your fence. Place the earth spike (E) in the soil and let it protrude about 2 to 5 centimetres from the top above ground level. Connect (if not already done) the end of the steel grounding cable (E) with the supplied nut to the threaded end of the earth pin.

Step 6—Connecting the fence
Use the blue fence connection cable (F) to connect the device to the fence. Loosen the right knob with the red cap at the bottom of the electric fence device. This is the button with the lightning symbol above it.

Remove one of the two rings behind the button and place the ring of the blue connection cable (F) over the threads of the electric fence device. Now replace the ring and then turn the knob on the thread. Firmly tighten the knob (hand-tight).

At the end of the blue connection cable (F) is a heart-shaped clip: you connect the wire of the fence with the electric fence device with this clip.

Slide the heart-shaped clip over the wire (D) and then move the clip (F1) sometimes horizontally over the wire. In this way, an optimum contact is created.

Is part of the fence on the street side or in another freely accessible public area? In that case, place a supplied ‘warning sign’ (G) in a clearly visible place of your fence. Use 2 small plastic cable connectors (not supplied) to do this.

Tip: After completing all of the steps above, check the entire system one more time.

Step 7—Switch on and test electrical installation
When all the above steps have been completed, you start the electrical system. Insert the plug of the electric fence device into the power outlet (220/230 VAC).

The light on the front of the electric fence device will now illuminate, indicating that the device is working properly.

Warning! There is now electricity on the fence.

Testing the Fence
To properly test the device and the working of the fence, we recommend that you consider purchasing a voltage tester. For the voltage testers, see the gallagher.eu webshop.

If you do not have a voltage tester, use a blade of grass to test the fence. To do this, hold the blade of grass between your thumb and forefinger and then place the end of the blade on the electric cord. Move the blade of grass a little further until you feel an electric impulse.
No electric impulse?
Check the electric fence device, is it plugged in?
Is the red light on the electric fence device lit?
Is there too much vegetation against the power cord?
Check all connections.

Part 2—Electric plus/minus fence on a (garden) barrier or wall

Step 1—Required materials
To install a plus/minus fence you need 2 insulated mounting wires.
1 m insulated (blue) connection cable is included in the basic kit, but this will often prove to be too short in common situations of a plus/minus fence.
You can order the special cable required for this on our gallagher.eu webshop (item no. 065028) Gallagher ground cable 1.6 mm on a roll of 10 m.

Note, Step 5 in this step-by-step plan is based on the use of the above Gallagher ground cable which isn’t supplied as standard with the kit.

Step 2—Placing the ring insulators on a fence or wall

For a wooden fence/surface,
The supplied ring insulators (C) are provided with self-cutting threads for, among other things, wood, which makes them relatively easy to drill into (soft) wood without pre-drilling.
If the wood is from a hard variety (tropical hardwood), we recommend pre-drilling the holes in the fence. Use a 2.5 mm wood drill and drill approximately 3 metres from holes of approximately 20 mm deep.

For a stone or concrete fence/surface,
The supplied ring insulators (C) are also suitable for a stone or concrete surface. For this application you must place the ring insulators in a ‘universal plug 6x30’ (not included). For this application you need to pre-drill the required holes with a 6 mm rock or concrete drill, approximately 30 mm deep.

Then screw in the ring insulators (C) and place the first and the last insulator as shown in (CA) and all in between insulators shown in (CB) above.

Tip: Not enough insulators? The ring insulators can also be ordered separately on gallagher.eu, for example (item no.004089) Screw insulator BS wood small, 25 pieces.
Step 3—Assembling wire 1

Assembly of the Minus wire

1. Unroll the wire for approximately 25 cm and make a loop at the beginning of the wire.
2. Close the loop using the supplied Vidoflex wire connector.
3. Attach the loop between the 2 underlying plastic wings of the insulator.
4. Then bring the wire to the next ring insulator and twist the wire between the plastic parts as shown in the image below, in a 360-degree loop. Repeat this until the next-to-last ring insulator.
5. Attach the wire to the last insulator, and follow steps 1 to 3 as described above again.
6. Now cut off any excess wire right behind the sealed Vidoflex wire connector.

Step 4—Assembling wire 2

Assembly of the Plus wire

1. Unroll the wire for approximately 25 cm and make a loop at the beginning of the wire.
2. Close the loop using the supplied Vidoflex wire connector.
3. Hook the loop into the ring of the first ring insulator (C) and then pass the wire through the eyes of the subsequent ring insulators.
4. Now pass the wire through the last ring insulator and return it to the position for the Vidoflex wire connector (H).
5. Now hold the wire tightly and then secure it with a Vidoflex wire connector.
6. Now cut off any excess wire right behind the sealed Vidoflex wire connector.

**Important!** For correct operation of the Plus/Minus system, the upper and lower wires must not be connected or touched. It’s also important that the wires be not in direct contact with the fence or any surrounding bushes, trees, etc. This will considerably limit the working of the electrical system.

**Step 5—Connecting the Plus and Minus wire fence**

For a good and stable connection of your Plus/Minus fence, we recommend the use of the specially suited Gallagher ground cable (see step 1, required materials).

**Proceed as following:**

**Connecting the Minus (ground) cable**

1. Strip or cut off approximately 35 mm from the insulation layer of the Gallagher ground cable (Y).
2. Remove the cover plate from the Vidoflex connector (H) on wire D1 by removing the 2 nuts.
3. Then place the stripped part of the ground cable (Y1) in the lower hollow part of the Vidoflex connector.
4. Replace the lock plate and the nuts of the Vidoflex connector and tighten the 2 nuts again.
5. Then roll out the desired length of the ground cable to the place where the electric fence device will be attached, making sure that there is enough space left to attach the end of the cable to the electric fence device.
6. Then cut the cable to the desired length and strip or cut approximately 35 mm of the insulation layer from the end of the mounted ground cable.

The cable can be attached to the fence or to the wall with the appropriate cable hoists. Such cable hoists or cable clamps are available at your local hardware store.

**Connecting the Plus (ground) cable**

To connect the Plus wire, repeat the steps 1 to 4 above (!).
Step 6—Installation of the electric fence device

Correct installation is essential for proper, functional and safe working of your electric fence. The electric fence device (A) should be placed near a power outlet and the fence, but always in a sheltered environment, such as a shed or under a roof and always protected from direct weather.

Warning! Do not connect the device to the power outlet yet!

Connecting the Minus Cable
1. Loosen the left (green) knob at the bottom of the electric fence device. This is the button with the Earth symbol above it.
2. Remove one of the two metal rings behind the green button.
3. Now bend the stripped part of the ground cable (Y1) back halfway through 180 degrees as indicated in the adjacent picture.
4. Place the bent wire over the threads of the electric fence device and put the ring back.
5. Then turn the knob on the thread again and tighten the knob firmly (hand-tight).

Connecting the Plus cable
1. Strip the end of the ground cable (Y2) according to the instructions in chapter 5.
2. Now repeat the steps as indicated for the Minus cable, but now for the red button. This is the button with the lightning symbol above it.

Warning sign
Is part of the fence on the street side or in another freely accessible public area? In that case, place a supplied ‘warning sign’ (G) in a clearly visible place of your fence. Use 2 small plastic cable connectors (not supplied) to do this.

Tip: After completing all of the steps above, check the entire system one more time.

Step 7—Switch on and test electrical installation

When all the above steps have been completed, you start the electrical system. Insert the plug of the electric fence device into the power outlet (220/230 VAC). The light on the front of the electric fence device will now illuminate, indicating that the device is working properly.

Warning! There is now electricity on the fence.
To properly test the device and the operation of the fence, we recommend that you consider purchasing a voltage tester. For the voltage testers, see the gallagher.eu webshop.

**No electric impulse?**
Check the electric fence device, is it plugged in?
Is the red light on the electric fence device lit?
Is there too much vegetation against the power cord?
Check all connections.

**Useful tips**

For a successful training of your pet, follow these 3 steps.

1: Power the fence once it has been built. Prevent your pet from having the opportunity to touch the fence without being corrected by the electrical impulse.
2: Stay in the yard with your pet when you first activate the fence. Call ‘no’ if the animal gets an impulse. Your voice together with the impulse tells it that it’s bad to touch the fence.
3: It is in the interest of training your pet that shortly after the fence has been placed there has been contact between the pet and the fence. This way your pet immediately learns that the fence is forbidden to pass.

**Important information**

**Warning**
Read and understand all instructions before using.

- Tell your family and neighbours that you have installed an electric fence and how it works.
- Instruct all people involved how to turn off the electric fence in the event of an emergency.
- The electric fence device must be connected to the galvanised earth pin supplied to ensure that the installation works perfectly.
- Check the local regulations for electrical fencing: these regulations may require a permit before an electrical fence may be used.
- Use double-insulated cable in buildings and in areas where the ground will make the galvanised wire corrode. Never use the electricity cable used in homes, as it is unsuitable and will not work.
- Risk of electric shock: never connect any other electrical device to your fence at the same time. Any lightning strike on your fence will then be routed to all other electrical equipment.