

# Bangalore Retro-Fit Control Box Kit

**Michael Williams Engineering Ltd**

## Installation Guide



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# 1. Overview

The Bangalore Retro-Fit Control Box Kit converts your older, non-digital Bangalore Bird Scarer into the latest digitally-controlled Bangalore Broadside Bird Scarer.

This guide shows how to install the kit yourself.

Please ensure you read these instructions carefully before installing your Retro-Fit Control Box Kit. Failure to observe the instructions closely may result in damage to your control box.

# 2. The B17 Bangalore Retro-Fit Control Box Kit

Figure 1 shows the contents of the B17 Bangalore Retro-Fit Control Box Kit.



Figure 1. Contents of the B17 Bangalore Retro-Fit Control Box Kit

It contains the following items:

- Control box assembly x 1
- Self-adhesive Bangalore Broadside reference guide x 1
- Bangalore Broadside Operating Instructions x 1

### 3. Strip-Down your Old Bangalore

Remove and discard the following components from your old Bangalore Bird Scarer:

- Control box assembly
- Complete gas system - retain the barrel pivot or jet mounting core

Remove the coil assembly from the old Bangalore - strip down and clean thoroughly.

Remove the condenser from the coil assembly and discard.

**Note: Ensure you have removed the condenser from the coil assembly. Failure to do this will result in damage to the circuitry in your new control box.**

Remove the spark plug. Clean the thread of the spark plug and thread of the hole with a wire brush. Ensure that the feeler gauge tip on the spark plug has been removed.

Carefully remove and clean the gas jet ensuring its end is not blocked.

**Caution: Never insert anything into the hole of the gas jet. This will damage the gas jet and cause your Bangalore to stop working.**

### 4. Re-assemble your Old Bangalore

Drill suitable holes in the side of the Bangalore tub. Mount the new control box assembly inside the tub. Ensure that it is weather-proof.

Refer to Figure 2 for full assembly instructions.

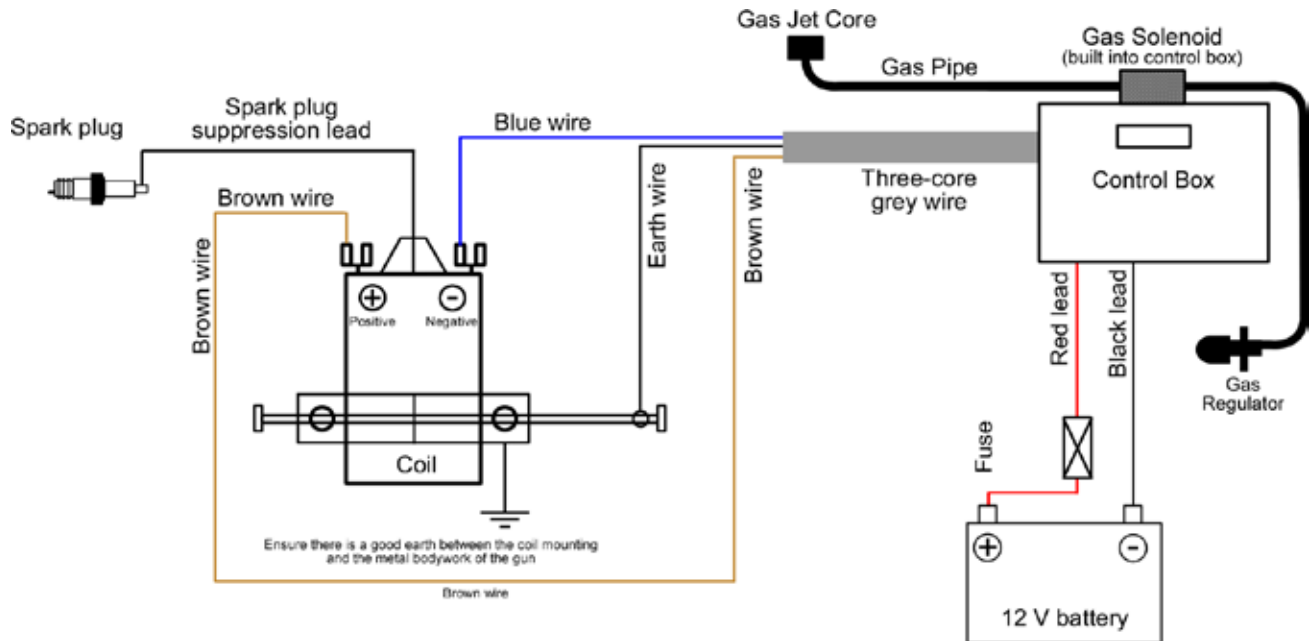


Figure 2. Retro-Fit Control Box Wiring Diagram

Re-fit the coil and spark plug.

**Note: Ensure you have removed the condenser from the coil assembly - refer to Section 3 above. Failure to do this will result in damage to the circuitry in your new control box.**

Ensure that you have a good earth connection between the clamp holding the coil and the metal bodywork of the gun.

Connect the coil to the spark plug.

Connect the coil to the blue, brown and earth wires as shown in Figure 2. Ensure that the earth wire is securely connected.

Connect the gas pipe to the gas jet core and ensure that it is gas-tight.

**Caution: Treat the gas jet gently as over-tightening can distort or damage it.**

**Note: Before proceeding further, ensure you have removed the condenser from the coil assembly - refer to Section 3 above. Failure to do this will result in damage to the circuitry in your new control box.**

Connect the gas regulator to your bottle of propane gas (red bottles).

Connect the red and black leads from the control box to your external 12V battery.

Program the new Bangalore Broadside control box - refer to the Bangalore Broadside Bird Scarer operating instructions.

Turn on the gas supply at the bottle.

Refer to the Bangalore Broadside Bird Scarer operating instructions for further information on operating your upgraded Bangalore Bird Scarer.

**Note: The Bangalore Broadside Bird Scarer operating instructions refer to the “on/off safety switch” on the side of the control box. Please ignore these as your upgrade box does not have or require this item.**

## **5. Help and support**

You can get help and support on any aspect of your Bangalore Bird Scarer by telephoning us or by visiting our website:

**Tel: 01223 88 22 22**

**[www.birdscaring.co.uk/support](http://www.birdscaring.co.uk/support)**