



ELFIPA

AUTOMAZIONE TIRO A VOLO
REALIZZAZIONI ELETTRONICHE



UNIVERSAL PHONOPULL

Operating Instructions

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1. SUMMARY

Dear customer, we thank you to choose our product and we ask you to **read carefully the Operating Instructions** on the using of "Universal Phonopull", necessary for a correct use of it and for its safety.

The information of the manual have the aim to provide notices about:

- The use of "Universal Phonopull";
- Technical Features;
- Elimination Instructions.

FEATURES OF THE PRODUCT:

- The "Universal Phonopull " is a kit which allows to control Target Release Machine, by using one or more microphones.
- It presents a release control, 5 microphones plugs and the control via token machine.



This Manual is to be considered as part of the product "Universal Phonopull" and therefore, it has to be kept carefully as a future reference, for the whole duration of the product.

2. SPECIFICATIONS OF THE PRODUCT

2.1 Intended Use

The "Universal Phonopull" is destined to be integrated in a Target Machine.

There are no other uses of this product.

2.2 Dimensions and Weights

The overall dimensions of the product (not packed) are:

Width:	20 cm
Length:	27 cm
Height:	6,5 cm

The overall weight is kg.

2.3 Electronic Supply Data

220 V AC, input ~9VA
12-24 V (AC-DC), input ~100mA.



ELFIPA S.n.c. doesn't take any responsibility for a wrong installation or connection of the product. It's suitable that all the operations are made by skilled workers.

2.4 Environment Conditions and Limits of Functioning

The "Transmitter + Radio Receiver for Target Machine Control" is arranged to work in temperature and humidity standard conditions. These standard conditions correspond to temperatures included between -5°C and +40°C with a degree of humidity of 50% 620%. The product is made to be installed inside outdoor machines. Both the Remote-control (Tx) and the Receiver (Rx) have to be protected from weather agents (rain, humidity, etc..)
The declared protection index is IP 40.

2.5 Safety Directions

The "Transmitter + Radio Receiver for Target Machine Control" implies some risks and for them is absolutely necessary to pay attention to what follows:

- Before doing whatever cleaning or maintenance operations, disconnect the "Transmitter + Radio Receiver for Target Machine Control" from the electronic supply;
- To guarantee the maximum stability and safety of the Receiver (Rx), it must be positioned on a solid, plane and stable surface;
- **Warning** this is an A Class product. If it is placed in a residential place, it can cause radio troubles. In this case the user can be asked to take proper measures.
- ELFIPA S.n.c. doesn't take any responsibility for the following cases:



- Unproper use of the product "Transmitter + Radio Receiver for Target Machine Control" (for the Intended Use, go to paragraph 2.1 of this Manual);
- Defects in the electronic supply;
- Modifications or interventions not authorized and made by not skilled workers;
- Non-observance (partial or total) of the Operating Instructions.

3. CONNECTIONS

3.1 CONNECTION TO THE TARGET RELEASE MACHINE



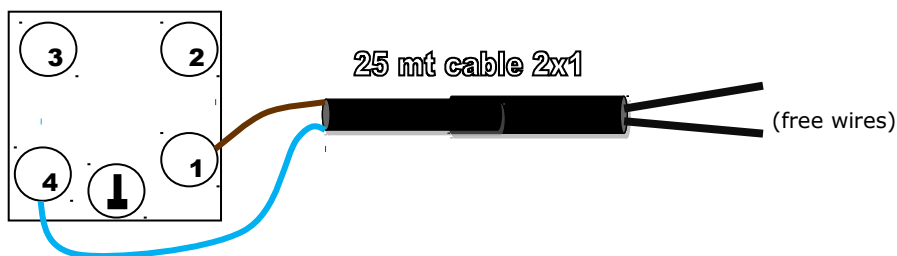
The Phonopull can be connected to the Target Release Machine, through a 25 mt cable, which is given to the customer. According to the type of target release machine, the cable can be connected in different ways, as reported in the following examples:

ATTENTION: the extension must be connected exactly

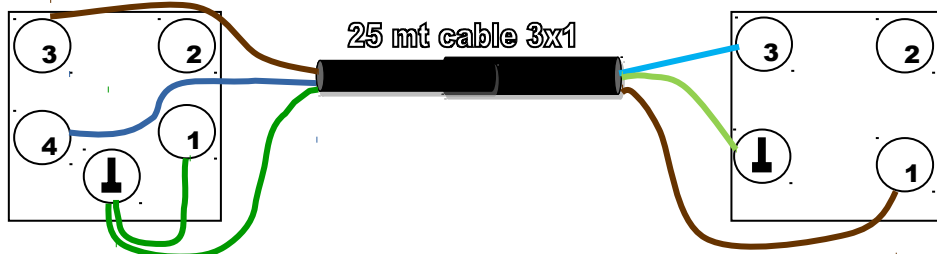
- A. Phonopull connection to LAPORTE target release machine and use of the machine power supply for the Phonopull supply at 12 Vcc.
This connection let remove the 220 Vac power outlet of the Phonopull.



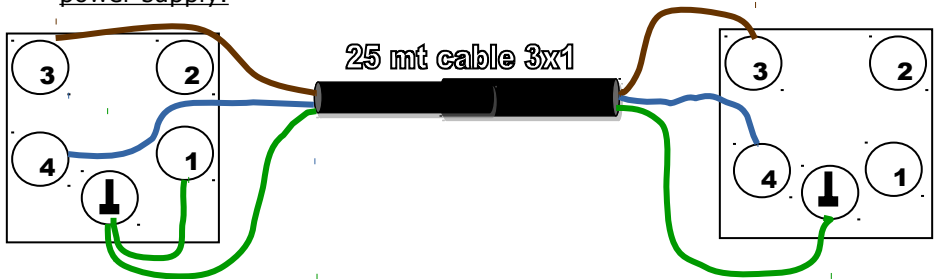
- B. Phonopull connection to be used in those machines, which have a release button. This connection requires a 220 Vac socket for the Phonopull power supply.



- C. Phonopull connection to MATTARELLI target release machine and use of the machine power supply as a 24 Vcc power supply for the Phonopull. This connection let remove the 220 Vac power socket for the Phonupll power supply.



- D. Phonopull connection to ELFIPA target release machine and use of the machine power supply as a 12/24 Vcc power supply for the Phonopull. This connection let remove the 220 Vac power socket for the Phonopull power supply.



3.2 CONNECTION TO AN INDEPENDENT TOKEN MACHINE

The Phonopull presents a second socket, which has to be used together with one of our independent token machines: those with smart-cards or with tokens.

Both token machines have already a wired cable, ready to be connected.



3.3 CONNECTION TO THE MICROPHONES

The Phonopull can work with at least a connected microphone; it works with till 5 microphones; the pins 1 to 5 for the signal, the pin 6 is shared with all the microphones.

This fonopull works well with at least two microphones connected and located at least 2.5 meters. If you must use only one microphone, you have to change the dip 3 in the off position (see the following pages, to know where to find the switches)



Our microphones have usually a 13 mt cable, which has been already wired to be connected directly.

4. OPERATING INSTRUCTIONS

Once every connections have been done as previously explained, the Phonopull is ready to be used.

It is enough to switch on the starting trigger and the led sideways flashes for some seconds; as soon as the light remains on permanently, it is possible to do the call in one of the microphones.

If the call is detected by the Phonopull, the red led, which is near the sensibility regulation, switches on for a while and the command is sent to the machine. Immediately afterwards the blue light begins to flash again for about 2-3 seconds, meaning that the Phonopull is in pause.

This equipment doesn't require any other explanations.

4.1 SENSIBILITY SETTING

Through a screwdriver with the proper dimensions, you can work on the rift of the Phonopull and set the microphones sensibility.

Usually the best position stands between 5 and 6, but in case of loud environmental noises, the microphones sensibility can be pulled down, avoiding the useless release of targets.

If you use microphones made by other firms, you should adjust the sensibility in the most proper way.



4.2

PAUSE SETTING

The pause between the calls is set at 3,5 seconds. It is possible to change this time, acting inside the Phonopull: to modify the pause time it is necessary to open the Phonopull, removing the 4 superior screws and removing the cover.

Inside a regulating trimmer can be found (the one circle in red in the picture), which permits to change the pause from 1 to 6 seconds.



4.3

USE WITH THE TOKEN MACHINE

When the Phonopull is connected to a token machine, it works permanently with it. If the token machine blocks the Phonopull because the available targets are expired, the red led begins to flash to indicate this circumstance. In case the token machine is disconnected without following the instructions reported in its respective manual, the Phonopull remains blocked with the red light flashing. To solve this situation, the customer has to work on the switch n.4 (shown by the yellow circle in the picture above), setting ON till the light finishes flashing.

4.4

DIRECT / DELAY CALL

Switch 1 OFF and 2 OFF = direct

Switch 1 ON and 2 OFF = fixed delay of 400 mS

Switch 1 OFF and 2 ON = random delay 0 to 1 S

Switch 1 ON and 2 ON = random delay 0 to 3 S

5. SOLUTIONS TO POSSIBLE PROBLEMS

Here follow some cases, where there can be found some problems in the functioning of the " Universal Phonopull"; the customer can solve these problems by themselves:

Kind of problem	Possible Cause	Solution
The Phonopull doesn't turn on	Electric Supply absent or interrupted	Check the correctness of the electric connections
		Verify that the button of the target machine is in position ON.
The Universal Phonopull, during the ordinary functioning, turns down	Electric Supply interrupted	Verify the presence of electric supply
		Verify the integrity of the connections at the source of electric supply.
The phonopull is on, but the machine doesn't release the targets	Wrong connections	Check to have chosen and executed correctly the connection between Machine and Phonopull

For other problems and if you don't manage to solve the problems above, ask some skilled workers for help.

6. ELIMINATION OF THE PRODUCT

When you don't want to use the product (Universal Phonopull) and you want to eliminate it, it's suitable to make it inoperative, taking out the Remote-control (Tx) battery and disconnecting the Receiver (Rx) from the supply circuit.

It's absolutely forbidden to disperse this product in the environment.

For the disposal of the product, take it in the proper ecological platforms or give it to special recycling firms.



CE *DECLARATION OF CONFORMITY*

The Firm **ELFIPA S.n.c.**

P.zza XXIV Maggio, **6** – 31040 Gorgo al Monticano (TV)

Dichiara sotto la propria responsabilità che:

the Product

Universal Phonopull

Models: - ***FPU01 - FPM01- FPP01***

to which is referred this Conformity Declaration CE, has been planned and built, according to the following Community Directives:

- Electromagnetic Compatibility Directive (EMC) 89/336/CEE
- R&TTE Directive 1999/5/CE
- Machines Directive 98/37/CE

In particular, the following harmonized norms have been applied:

CEI EN 61000-6-3 ; CEI EN 61000-6-1 ; CEI EN 55022 ; CEI EN 61000-4-3 ; CEI EN 61000-4-2

Therefore the Product above-sued can be considered properly done to guarantee the safety of things and people, provided that it has been installed correctly, following what it's written in the Operating Instructions.

N.B. It's not allowed to make the product working till the machine, in which the product is integrated, is not identified and declared conforming to the Directive 98/37/CE.

Notes.....



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