



## T036 Terraphone Professional Amplifier

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## Terraphone Professional Rally Intercom System

### Main Features

- Automatic Volume Control - to prevent excessive volume in the headset
- Noise Reduction - to eliminate amplification of background noise
- Noise cancelling microphones - for improved sound reproduction
- 2 way radio connection with speaker cut-off switch, mic level control and PTT socket
- Audio input for music (CD/mp3) or auxiliary source (GPS etc).
- Mobile phone connection with level selection to suit a wide range of phones
- Audio output socket to tape/mp3 recorder (to record pace notes) or connection to video camera
- Switchable options to customise your Terraphone to your requirements

### Headsets

- Full face and open face headset options.
- Practice headsets (without helmet), for crew communication on road sections or when preparing pace notes.

### Introduction

The Terratrip Terraphone Professional is an intercom system designed to allow communication between both the driver and co-driver and allow connection to a variety of equipment for rally car racing or similar sports.

Terratrip has engineered this model to provide greater audio quality and provide a better experience for the user by eliminating background engine noise and preventing excessive sound levels in the headsets. Additionally greater connectivity has been provided to accommodate the increasing use of mobile phones and other audio devices in the car.

*Thank you for purchasing this product, with care the unit should give you good service. Please read these instructions carefully, by doing so you will get full use of the unit and save a great deal of frustration!*

**IMPORTANT NOTE:** There are no customer serviceable parts in this unit. Damage may be caused if you open the case. These units do not have an internal battery.

## Fitting the headset parts to your helmet

**Speakers** - Carefully fit the speakers inside the helmet so that they align exactly with your ear canal. The Velcro should stick to the helmet lining or if not you can glue or stitch the Velcro loop fabric in place.

**Microphone (Full face helmets)** - Fix the microphone on the inside of the chin guard of the helmet. The microphone **MUST NOT** be more than 1cm from your lips.

**Microphone (Open face)** - Shape the microphone arm base to the shape of the helmet. Make sure that there are no gaps between the microphone arm base and the helmet. Wipe the microphone arm base with a cloth to remove any dust and make sure that the helmet is clean. Fasten the microphone arm base in position on the helmet using the adhesive pad provided. The microphone **MUST NOT** be more than 1cm from your lips. For right hand drive cars make sure that the driver's microphone is fastened to the left side of the helmet and the co-driver's microphone is fastened to the right. (vice versa for left hand drive cars).

**All headsets IMPORTANT** - The white clip should be fastened to the side of the helmet to alleviate strain on the cables. If not used, premature failure of the headset may occur.

## Fitting the Terraphone

**Amplifier Unit** - Mount the Terraphone amplifier between the driver and co-driver in a position so that cables to the headsets do not obstruct operation of the vehicle and are kept clear of the steering wheel. The unit should be fastened to a solid surface with the fixings provided. Connect the red wire to +12 volts positive and connect the black wire to the battery negative. NOTE: It is recommended that both the red and black wires are connected directly to the battery terminals to avoid interference and the cables should NOT be run together with other vehicle wiring. Avoid proximity to pedals and other moving parts and use cable grommets to avoid chaffing where cables pass through the bulkhead. You must fit the fuse in the positive lead, directly after the positive terminal. **The amplifier must only be used on negative earth cars.**

## Using your Terraphone

**Power switch** - The right hand switch on the Professional model switches the unit on and off, push to the left to switch on.

**Volume controls** - The right side volume control effects the overall volume to the right user and the left volume control effects the overall volume to the left user. Set these controls individually to give a comfortable level.

**Automatic Volume Control** - The Terraphone Professional is equipped with an automatic volume control or "limiter". This will raise normal speech levels to a constant level and prevent excessive volume in the headset. This can be disabled if not required by switching off the DIP switch marked LIMITER on the rear panel.

**Noise Reduction** - The Terraphone Professional is equipped with a noise reduction system that will eliminate amplification of background engine noise. The threshold at which this discriminates between background noise and your voice can be adjusted with the control on the rear panel marked NOISE REDUCTION. Rotating this adjuster clockwise will require a higher speech level to activate the microphone. Noise reduction can be disabled if not required by switching off the DIP switch marked N/R on the rear panel.

**Radio connection / Level setting** - The 3.5mm jack socket on the back of the amplifier marked RADIO can be connected to the output of your 2-way radio. (auxiliary radio leads can be purchased from Terratrip or your local dealer). On this model the audio from the radio can be switched off when the left switch marked "RADIO" is moved to the left. Adjust the amplifier for normal operating levels and then set the radio volume control to give the required receive level in the headsets.

**Transmit level setting** - Make a call to another radio and confirm that your voice can be heard in the remote radio. The level of your voice can be adjusted by inserting a screwdriver in the slot marked RADIO TX LEVEL, this can be reduced if your voice is received at a particularly high or distorted level or it can be increased if your voice is faint.

**Radio PTT socket** - The PTT (Press to talk) socket allows connection to a press to talk switch on a short cord so that the radio can be set to transmit whilst connected to the Terraphone. PTT is disabled when the speaker is switched off.

**Audio output** - . The 3.5mm socket marked AUDIO OUT on the rear of the amplifier can be connected to a video or tape/mp3 recorder. The speech of both crew members can then be recorded along with any auxiliary input.

**Audio input** - . The 3.5mm socket marked AUDIO IN on the rear of the amplifier can be connected to auxiliary equipment such as MP3/GPS or CD player.

**Mobile phone connection / Level setting** - The 3.5mm jack socket on the back of the amplifier marked MOBILE can be connected to your mobile phone. (Suitable leads and adapters can be purchased from Terratrip or your local dealer). Adjust the amplifier for normal operating levels and then make a call with your mobile and set the volume on the mobile to give the required level in the headsets. The small "DIP" switch marked MOB OUT on the rear panel can be set to reduce or increase the received level if required. A similar switch marked MOB IN can be used to set the microphone level INTO the mobile phone. This can be switched ON to reduce the mic level if excessive background noise or distortion is heard at the remote phone and should be left switched OFF if your voice is too faint.

*We hope you enjoy your new Terratrip product, please contact Terratrip or your local dealer if you require any help.*