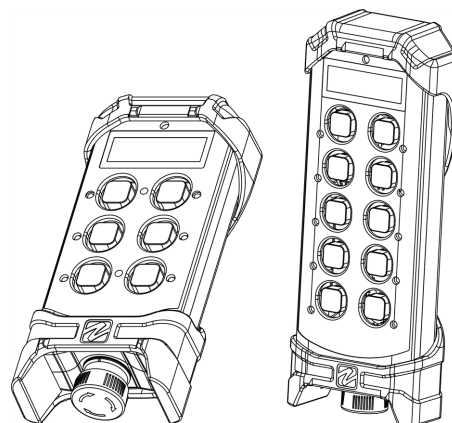


INSTALLATION INSTRUCTIONS

*Transmitter:
T35-01, T36-01*



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For more information about this product, please download the latest user or installation instructions at **www.tele-radio.com**.

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CHAPTER 1: INTRODUCTION



READ ALL INSTRUCTIONS AND WARNINGS CAREFULLY BEFORE MOUNTING, INSTALLING, CONFIGURING AND OPERATING THE PRODUCTS.

These installation instructions have been published by Tele Radio and are not subject to any guarantees. The installation instructions may be withdrawn or revised by Tele Radio at any time and without further notice. Corrections and updates will be added to the latest version of the manual. Always download the installation instructions from our website, www.tele-radio.com, for the latest available version. Keep the safety instructions for future reference.

IMPORTANT! These instructions are intended for installers and authorized service and distribution centers. The instructions containing information about the installation and configuration of the radio remote control unit on the machine are NOT intended to be passed on to users. Only information that is needed to operate the machine correctly by radio remote control may be passed on to users.

Tele Radio's product range is composed of transmitters, receivers, and accessories intended for use together as a system and Tele Radio remote controls are often built into wider applications. This documentation is not intended to replace the determination of suitability or reliability of the product for specific user applications and should not be used for this purpose. It is the responsibility of any such users or integrators to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use. Tele Radio shall not be responsible or liable for misuse of the information contained herein.

Always refer to the applicable local regulations for installation and safety requirements relating to cranes, hoists, material handling applications, lifting equipment, industrial machinery, and/or mobile hydraulic applications using Tele Radio products, e.g.:

- applicable local and industrial standards and requirements,
- applicable occupational health and safety regulations,
- applicable safety rules and procedures for the factory where the equipment is being used,
- user and safety manuals or instructions of the manufacturer of the equipment where Tele Radio remote control systems are installed.

Tele Radio Installation instructions do not include or address the specific instructions and safety warnings of the end product manufacturer.

For battery precautions, see "9.1 Battery precautions".

Tele Radio products are covered by a warranty against material, construction, or manufacturing faults. See "Chapter 10: Warranty, service, repairs, and maintenance".

1.1 About this document

Before installing or operating the product, read the corresponding documentation carefully.

Tele Radio's product range is composed of transmitters, receivers, and accessories intended for use together as a system.

These installation instructions cover general safety issues, main technical specifications, standard installation, configuration and operating instructions, general troubleshooting and battery information. Images shown in this document are for illustrative purposes only.

Please report any error or omission in this document, as well as any improvement or amendment suggestion to techdoc@allgon.com.

1.1.1 COPYRIGHT

Information in this document is subject to change without notice. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, photographic, mechanical (including photocopying), recording or otherwise for any purpose other than the purchaser's personal use without the written permission of Tele Radio.

1.1.2 TERM AND SYMBOL DEFINITIONS

The capitalized terms and symbol used herein shall have the following meaning:

- **WARNING:** indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION:** indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.
- **IMPORTANT:** is used for information that requires special consideration.
- **NOTE:** is used to address practices not related to physical injury.



This symbol is used to call attention to safety messages that would be assigned the signal words "WARNING" or "CAUTION".

1.2 About T35/T36 transmitters

T35/T36 Panther transmitters have simplex communication.

The product is intended for professional use in the temperature range -20...+55 °C / -4...+131 °F. The product must be protected from extreme weather conditions.

The product housing has IP code T36: IP65, T35: IP66.

1.2.1 OVERVIEW OF THE AVAILABLE MODELS

Model	Number of buttons	Display	Available frequencies		Connectivity module	
			433 MHz	2.4 GHz	Bluetooth®	RFID (IEEE 802.15.1)
T35-01	6	●	–	●	●	●
T36-01	10	●	–	●	●	●

● Standard – Not available

CHAPTER 2: SAFETY

2.1 Warnings & restrictions



Carefully read through the following safety instructions before proceeding with the installation, configuration, operation, or maintenance of the product. Failure to follow these warnings could result in death or serious injury.

This product must not be operated without having read and understood the Installation instructions and having received the appropriate training. The purchaser of this product has been instructed how to handle the system safely. The following information is intended for use as a complement to applicable local regulations and standards.

IMPORTANT! Tele Radio remote controls are often built into wider applications.

These systems should be equipped with:

- a wired emergency stop where necessary
- a brake
- an audible or visual warning signal

2.1.1 INSTALLATION AND COMMISSIONING

IMPORTANT! Only licensed or qualified personnel should be permitted to install the product.



This radio system must not be used in areas where there is a risk of explosion.



Always switch off all electrical power from the equipment before installation procedure.



RISK OF UNINTENDED EQUIPMENT OPERATION

Only transmitters that are intended for use should be registered in the receiver.

Failure to follow these instructions could result in death, serious injury, or equipment damage.

2.1.2 OPERATION



This equipment is not suitable for use in locations where children are likely to be present.



Only qualified personnel should be permitted to access the transmitter and operate the equipment.



- **Make sure that the user satisfies the age requirements in your country for operating the equipment.**
- **Make sure that the user is not under the influence of drugs, alcohol and medications.**
- **Make sure that the user knows and follows operating and maintenance instructions as well as all applicable safety procedures and requirements.**

The user should:



- **Always test the transmitter stop button before operating it. This test should be done on each shift. See "2.2.1 Stop button".**
- **Never use a transmitter if the stop button is mechanically damaged. Contact your supervisor or representative for service immediately.**
- **Never leave the transmitter unattended.**
- **Always switch the transmitter off when not in use. Store in a safe place.**
- **Keep a clear view of the work area at all times.**

2.1.3 MAINTENANCE



Before maintenance intervention on any remote controlled equipments:

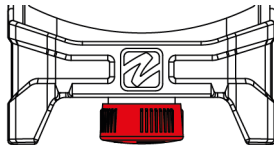
- **always remove all electrical power from the equipment.**
- **always follow lockout procedures.**

- Keep the safety information for future reference. Always download the Installation instructions from our website, www.tele-radio.com, for the latest available version.

- If error messages are shown, it is very important to find out what caused them. Contact your representative for assistance.
- The functionality of the stop button should be tested at least after every 200 hours' use (see "2.2.1 Stop button").
- If the stop button is mechanically damaged, do not use the transmitter. Contact your supervisor or representative for service immediately.
- Keep the product in a clean, dry place.
- Keep contacts and antennas clean.
- Wipe off dust using a clean, slightly damp cloth.
- Never use cleaning solutions.
- Check the encapsulation, foil and cable for damages every day. If the encapsulation or foil is damaged, moisture can cause serious damage to the electronics.

2.2 Safety features

2.2.1 STOP BUTTON



Tele Radio transmitters are equipped with a stop button.

When the **Stop** button is pressed, the stop relays on the receiver deactivate.

IMPORTANT! The Stop button should always be tested before operating the transmitter. This test should be done on each shift, without a load.

To test the stop button:

1. Press the **Stop** button.
2. Twist and release the **Stop** button.

CHAPTER 3: FUNCTIONAL SAFETY

Ändringar efter Rise-granskning kan förekomma.

3.1 Safety function(s)

Please note that both the transmitter and receiver need to be functional safety compliant to be able to claim functional safety for the different safety functions below.

Also note that transmitter and receiver can have different safety levels. The total functional safety values need to be calculated by taken the individual values for the transmitter respective the receiver.

NOTE: The safety level/safety values of the safety function(s) on the complete end-user system depends on other sub system(s) and needs to be calculated by the manufacturer of the complete system.

For more functional safety information about the receivers and the maximum response time, please check the Installation instruction or User instruction for the receivers.

3.2 Stop function

The safety-related stop function in transmitter T35/T36 complies with EN 61508:2010 SIL3 and EN 13849-1:2015 Category 4 PL e.

3.3 EN 13849 functional safety values for T35/T36

Measure	Stop function
Performance level (PL)	e
Category (Cat)	4
Mean time to dangerous failure (MTTF _D)	478 years
Diagnostic coverage (DC)	99%
Probability of dangerous failure per hour (PFH)	4.91E-09
Mission time	10 years

3.4 EN 61508 functional safety values for T35

Measure	Stop function
Safety integrity level (SIL)	3
Probability of dangerous failure per hour (PFH)	7.26E-09
Diagnostic coverage (DC)	99%
Safe failure fraction (SFF)	99.1%
Level of hardware fault tolerance (HFT)	1
Lifetime	10 years
Proof test interval	Proof test equal to lifetime
Diagnostic test interval	Continuous

3.5 EN 61508 functional safety values for T36

Measure	Stop function
Safety integrity level (SIL)	3
Probability of dangerous failure per hour (PFH)	7.53E-09
Diagnostic coverage (DC)	99%
Safe failure fraction (SFF)	99.1%
Level of hardware fault tolerance (HFT)	1
Lifetime	10 years
Proof test interval	Proof test equal to lifetime
Diagnostic test interval	Continuous

CHAPTER 4: TECHNICAL DATA

4.1 Transmitter specifications

	T35-01	T36-01
Number of buttons	6 x 2-step buttons	10 x 2-step buttons
I/O switch	Yes	No
Power supply	Internal, rechargeable lithium-ion battery 103450	Replaceable, rechargeable lithium-ion battery (3.7 V) (see "9.2 Battery information").
Compatible battery packs	-	D4-13: 3.7 V / 2000 mAh Li-ion
Operating current (mA) ¹	42	42
Operating time (with continuous usage)	Approximately 48 h (depending on settings)	Approximately 52 h (depending on settings)
IP code (product housing)	IP66	IP65
Operating Altitude (m)	2000	
Operating temperature	-20...+55 °C / -4...+131 °F	
Storage temperature	-30...+70 °C / -22...+158 °F (without battery) ²	
Charging temperature	+10...+35 °C / +50...+95 °F	
Charging voltage	5–45 V DC ³	
Display	Monochrome LCD display Active area: 45.3 x 14.6 mm (1.78 x 0.57 in) Resolution: 128 x 32 px Graphic / pixels with backlight	
Safety levels	EN ISO 13849-1, PLe CAT4 (Stop function , see "Chapter 3: Functional Safety")	
Dimensions (LxWxH)	160 x 76 x 39 mm / 6.3 x 3 x 1.5 in	210 x 79 x 42 mm / 8.2 x 3.1 x 1.6 in

¹2.4GHz band, TX max power

²For storage temperature of battery pack, see "9.2 Battery information".

³Charging works down to 5 V, but with degraded charge current and increased charging time.

	T35-01	T36-01
Weight	294 g / 0.65 lbs	328 g / 0.72 lbs (without battery)

4.2 Radio specifications

	2.4 GHz SRD (Normal)	2.4 GHz Bluetooth	RFID
Radio frequency range	2405 – 2480 MHz	2402 – 2480 MHz	13.56 MHz
Frequency management	Direct Sequence Spread Spectrum (DSSS)	GFSK	ASK
Radio frequency output power	EIRP: <12dBm (15.85mW)	EIRP: <10dBm (10 mW)	< -5dBuA/m @ 10m
Number of channels	16 (channel 11–26)	40 (channel 0–39)	1
Radio communication	Simplex		RFID reader

4.3 Radio frequency band - 2.4 GHz

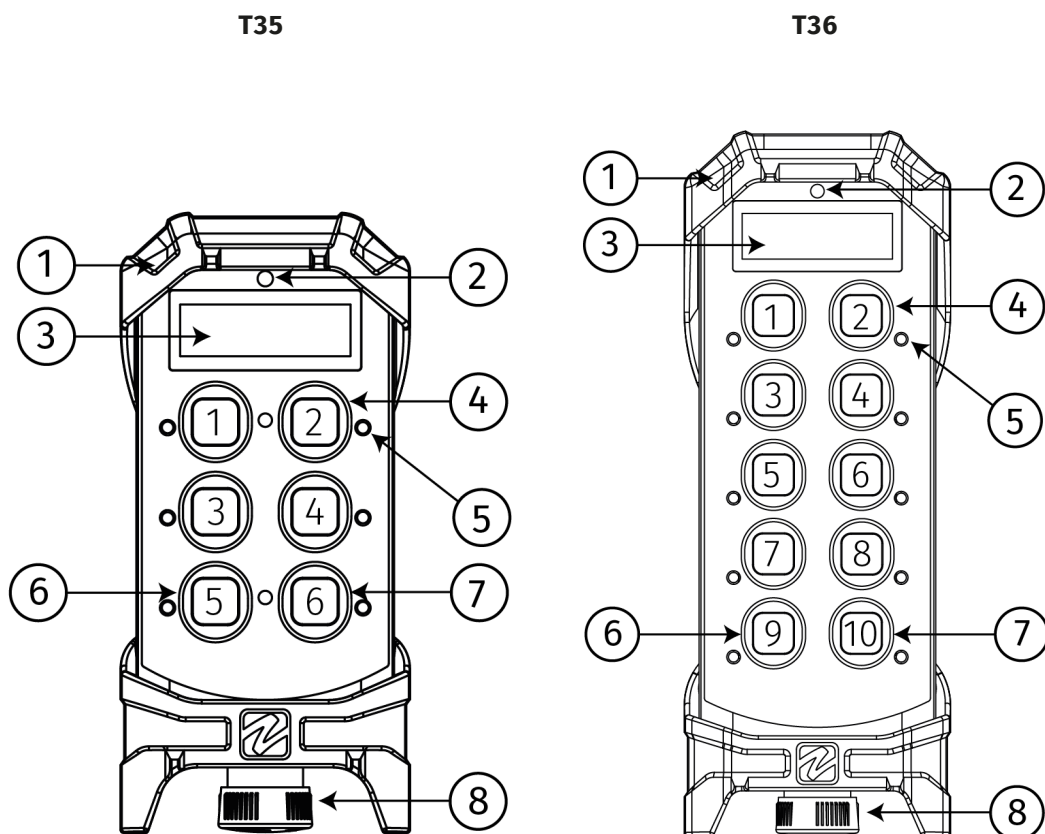
For radio systems operating on frequency band 2.4 GHz, the frequency band is divided into 16 channels (11 to 26). Once the channel has been selected on the transmitter, the receiver will automatically detect and switch to the same channel.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405	19	2445
12	2410	20	2450
13	2415	21	2455
14	2420	22	2460
15	2425	23	2465
16	2430	24	2470
17	2435	25	2475
18	2440	26	2480

CHAPTER 5: PRODUCT GENERAL DESCRIPTION

The pictures shown in this chapter are for illustrative purposes only.

5.1 Transmitter front



1. Rubber cover

2. Top LED

3. LCD display

4. Buttons

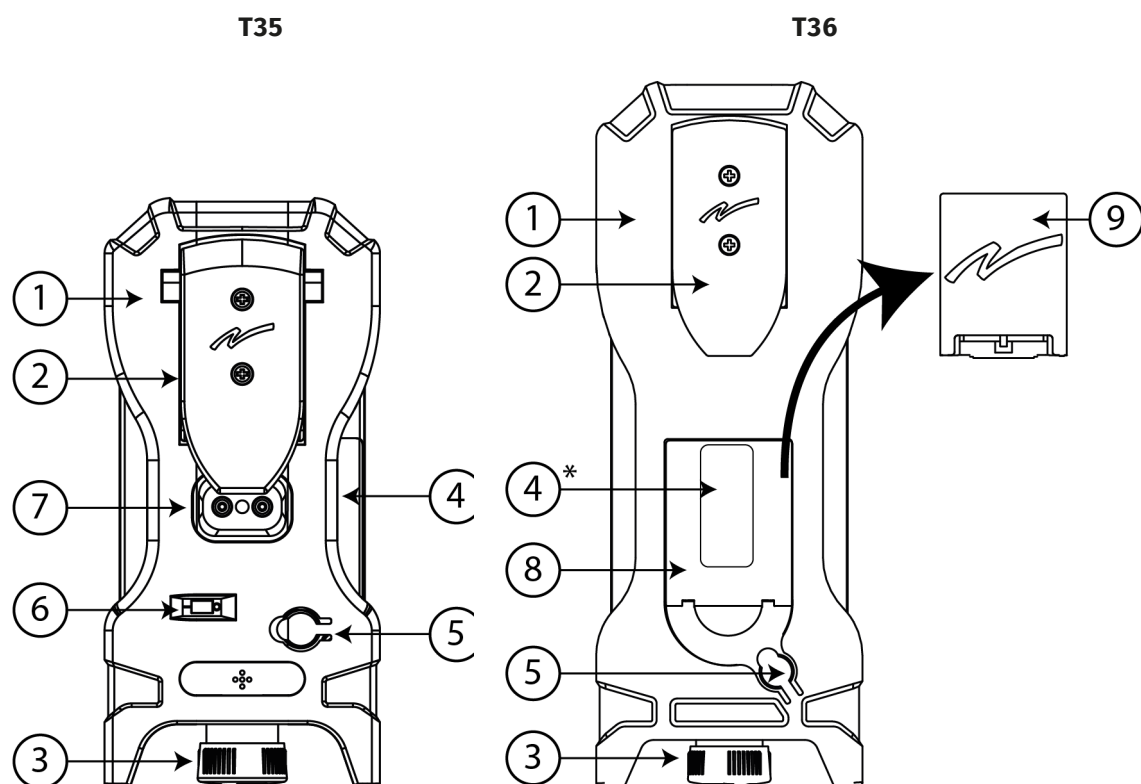
5. Button LEDs

6. **Left Start** button

7. **Right Start** button

8. **Stop** button

5.2 Transmitter back



- | | | |
|-----------------------|----------------------------------------|--------------------------------------------|
| 1. Rubber cover | 4. Product label ¹ | 7. Charger contacts for Tele Radio holders |
| 2. Clip | 5. Battery charger socket ² | 8. Battery compartment |
| 3. Stop button | 6. I/O switch | 9. Replaceable battery |

¹*The product label is placed inside the battery compartment.

²For adapter 100-001-057-18 (M769720) multi charger power supply 12V DC. T36: Only to use with D4-13 battery.

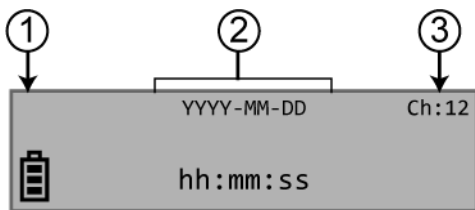
5.3 Display and top LED

5.3.1 LCD DISPLAY

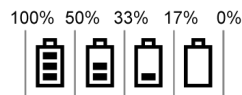
The transmitter display is intended for configuration purpose and visualization of transmitter error indications.

The information displayed can be programmed with via Tele Radio proprietary programming language. Contact your representative for assistance.

As factory default, the display will show the following information.



1. Battery level indication¹

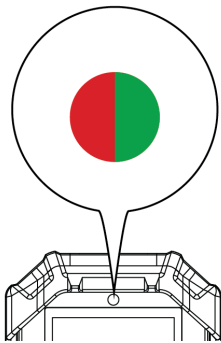


2. Date and time (customizable)

YYYY-MM-DD	Current date
hh:mm:ss	Current time

3. Channel number

5.3.2 TOP LED



The transmitter is equipped with one bi-color LED (top LED) for battery indication and radio link information. For more details, see "Chapter 6: Status and error indications"

¹Approximate values with a new, fully charged battery.

CHAPTER 6: STATUS AND ERROR INDICATIONS

6.1 Top LED status indication

The top LED lights red if there is no battery is present in the compartment or if the battery used is not a D4-13 battery. When the transmitter is charging, the top LED flashes red and when the when the battery capacity is full, the top LED lights green.

The top LED lights/flashes red, battery should be charged or changed at the next convenient opportunity (see "9.2.2 Charge the battery").

6.2 Stop button error indications

The **Stop** button must be tested if one of the following errors occurs when pulling out the **Stop** button to start the transmitter:

- "FATAL ERROR STOP BUTTON NOT ANALYZED"
- "FATAL ERROR STOP BUTTON INVALID AD VAL"
- "FATAL ERROR STOP-BUTTON TEST REQUIRED"

6.2.1 TEST THE STOP BUTTON

NOTE: A test of the stop button is required in both "pulled out" and "pressed in" positions.

1. Press the **Stop** button.

If the transmitter turns off	If the transmitter doesn't turn off
<i>The test succeeded.</i>	<i>The test failed.</i>
Proceed to next step.	<ol style="list-style-type: none"> 1. Disassemble the transmitter 2. Check the stop button and replace if necessary. 3. Check the cables from the stop button to the transmitter board. 4. Proceed to next step.

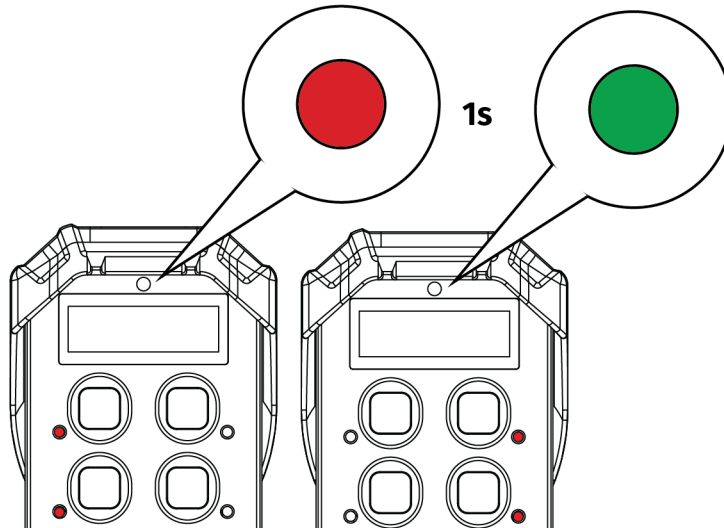
2. Twist and release the **Stop** button.

If the transmitter turns on.	If the transmitter doesn't turn on
<i>The test succeeded.</i>	<i>The test failed.</i>
The transmitter can be used.	Go back to step 1 and try again.

6.3 Error indications and code messages

A fatal error is indicated by a LED combination including the top LED (LED 0) and button LEDs 1-4.

Top LED is flashing red/green with one second interval (when red - LEDs 1+3 are lit, green - LEDs 2+4 are lit). For this error code, contact technical support.



●: LED is lit (red). ○: LED is off.

CHAPTER 7: OPERATION

7.1 General information

To control a receiver, the transmitter must be registered and logged in to the receiver. If another transmitter is already logged in to the receiver, it must be logged out before a different transmitter can be logged in.

If no transmitter is logged in to the receiver, proceed with the login procedure before using the system. Once a transmitter has been logged in, it will remain logged in until it is manually logged out.

More than one transmitter can be registered in the receiver, but only one transmitter can be logged in at a time.

7.2 Radio mode

NOTE: To establish a radio link between the transmitter and the receiver, both units must be set to the same radio mode.

This transmitter is set to **continuous** radio mode. The transmitter starts to transmit continuously as soon as it is started. The radio transmission ends when the stop button is pressed. **T35:** Buttons 5 and 6 are used as start buttons. **T36:** Buttons 9 and 10 are used as start buttons.

Discontinuous radio mode is not available for this transmitter.

7.3 Functionality test

NOTE: This list is intended for use as a support for the manufacturer of the equipment where Tele Radio remote control systems are installed.

Before operating the radio system, follow the procedure below.

IMPORTANT! This test should be performed at each shift, without a load, and should include but not be limited to the following steps

- Make sure that the controlled object can not cause any harm in the event of unexpected movement.
- Always follow local safety rules and start the equipment according to the corresponding instructions.
- Make sure that the transmitter can control the receiver by testing all functions.
- Make sure that the functions respond as expected.
- Make sure that all movements are as planned.
- Make sure that the stop button works correctly.
- Make sure that the stop function works correctly.

7.4 Start a session

To be able to control a receiver with the transmitter, the transmitter must be registered in the receiver.



When not in use, transmitters must be switched off and stored in a secure storage space.



Do not use the system if the stop button is damaged or if it does not stop the equipment. Doing so could result in serious injury or death.

1. Make sure that the **Stop** button is pressed.
2. Twist and release the **Stop** button.
The top LED lights.
*The display shows: **T35:**[Start by pressing 5+6] **T36:**[Start by pressing 9+10]*
3. Press and hold both **Start** buttons simultaneously for one second.
The buzzer emits a beep.
4. Release both **Start** buttons.
The buzzer stops beeping.
5. Proceed with the functional test (see "7.3 Functionality test").

7.5 Log the transmitter out from a receiver

IMPORTANT! For the logout function to work, **BOTH** the receiver and the transmitter must have the logout function activated and be set to continuous radio mode.

A transmitter already logged in to the receiver has to be logged out before any other transmitter can be logged in. If a transmitter has been lost or seriously damaged, use the replace procedure on the transmitter.

NOTE: Logout can only be performed when the transmitter is on and a radio link with one or more receivers has been established. The receiver must be powered-up for the logout procedure to be successful.

NOTE: The logout procedure will log the transmitter out from all receivers that are part of the radio session.

NOTE: The logout function cannot be activated/deactivated from the transmitter. Contact your representative for assistance.

For this transmitter, the logout function is activated by default.¹

7.5.1 QUICK LOGOUT

While the transmitter is in a session (i.e. transmitter started and radio link with the receiver established):

1. Press and hold the **left Start** button.
2. Press the **Stop** button.
The top LED lights (red). And text in display says "Logging out..."
3. Release the **left Start** button.
The transmitter takes approximately 2 seconds to log out. The transmitter turns off.

It is also possible to log out from the **Menu mode**.

¹Check the receiver installation instructions for more details about the logout function in the receiver.

CHAPTER 8: CONFIGURATION MENU

8.1 Register the transmitter in a receiver



RISK OF UNINTENDED EQUIPMENT OPERATION

Only transmitters that are intended for use should be registered in the receiver.

Failure to follow these instructions could result in death, serious injury, or equipment damage.



RISK OF UNINTENDED EQUIPMENT OPERATION

Do not perform this action when the receiver is in a session with another transmitter. The radio communication may be interrupted or broken.

Failure to follow these instructions could result in death, serious injury, or equipment damage.

NOTE: For the registration procedure to be successful, the receiver must be powered up.

NOTE: To establish a radio link between the transmitter and the receiver, both units must be set to the same radio mode.

8.1.1 PREREQUISITE

NOTE: The registration instructions require access to the receiver circuit board. Before starting the registration of a transmitter, prepare the receiver as follow:



RISK OF ELECTRIC SHOCK

The receiver must only be opened by qualified installers or authorized personnel.

Make sure the power supply is switched off before opening the receiver. Failure to follow these instructions could result in death, serious injury, or equipment damage.

1. Remove the front cover of the receiver. Use a screwdriver to remove the screws.
2. Proceed with the registration procedure.

8.1.2 REGISTER THE TRANSMITTER IN A PANTHER RECEIVER

NOTE: Applies to PN receivers

NOTE: Applies when used together with receivers set to "Continuous mode".

1. Make sure that the **Stop** button is pressed.
2. Twist and release the **Stop** button.
The top LED lights (green when the battery capacity is good, red when the battery capacity is poor). The LEDs next to both start buttons flash (red).
3. Press and hold both **Start** buttons simultaneously for one second.
The LEDs next to both start buttons light (red).
4. Release both **Start** buttons.
The LEDs next to both start buttons go out. The top LED flashes (green).

ON THE RECEIVER

5. Enter registration mode. See the receiver installation instructions for more detailed information.

ON THE TRANSMITTER

6. Press and hold buttons 1 and 2¹.
7. Release buttons 1 and 2.
The transmitter is registered.

If no transmitter is found within approximately 10 seconds, the receiver exits to normal operation. Go back to step 1 and try again.

¹Default predefined registration buttons.

8.2 Menu mode and standard settings

The **Menu mode** allows for certain settings to be set directly from the transmitter. The menus are handled via the Plugins and can be completely customized.

The standard menus defined by default are determined by the radio protocol that has been activated in the transmitters. Once in **Menu mode**, the following standard menus will be available.

Menus	Description
- [2 Replace]	Replace a lost or damaged transmitter
- [3 Radio Channel]	See/ select the channel/bank to use
- [4 Auto shutdown]	Select the radio inactivity timeout
- [5 Load select]	Select a load option (0–8)
- [5.1 Load select]	Enable/disable Load select
- [5.2 Load at startup]	Select the default load at start-up (A–D)
- [6 Logout]	Log out the transmitter from a receiver
- [7 Startup protection]	Enable/disable RFID protection for starting the transmitter
- [7.1 RFID]	Enable/disable RFID tags for starting the transmitter
- [7.1.0 Learn]	Learn a RFID tag
- [7.1.1 Erase All]	Erase all RFID tags stored in the transmitter memory
- [8 Sysinfo]	System information
- [Sysinfo Battery]	View information about the battery
- [Sysinfo Software]	View information about the software versions
- [9 Misc]	Miscellaneous
- [9.1 Backlight]	Configure the backlight level
- [9.2 Buzzer]	Configure the buzzer sound level
- [9.3 Time]	Configure the time zone of the transmitter
- [9.4 Bluetooth]	Enable/disable Bluetooth

8.3 Enter menu mode

1. Make sure that the **Stop** button is pressed.

2. Twist and release the **Stop** button.

The display shows: **T35:** [Start by pressing 5+6] **T36:** [Start by pressing 9+10]

3. Press and hold the **right Start** button.

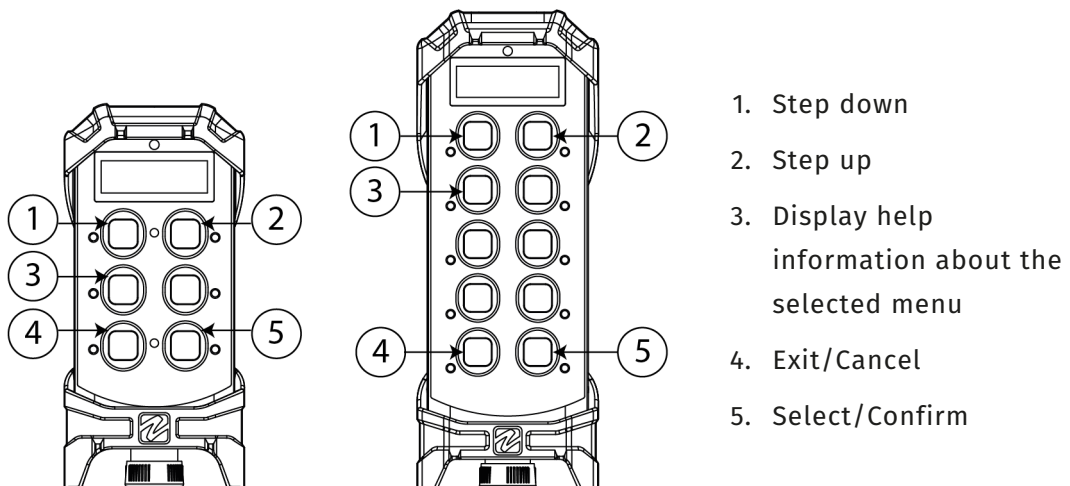
4. Press the **Stop** button.

5. Release the **right Start** button.

The top LED lights (green). The transmitter is now in Menu mode.

If no button is pressed within 3 minutes, the transmitter will automatically turn off.

To select a menu, use the buttons according to the following illustration.



8.4 Replace a transmitter

It is possible to replace a registered transmitter with another transmitter of the same model. The procedure does not require to open the receiver housing but the receiver needs to be powered up and within transmission range.



RISK OF UNINTENDED EQUIPMENT OPERATION

Do not perform this action when the receiver is in a session with another transmitter. The radio communication may be interrupted or broken.

Failure to follow these instructions could result in death, serious injury, or equipment damage.



The replacement transmitter will control all receivers it has been registered in, provided that no other transmitter is logged in.

IMPORTANT! Before replacing a damaged or missing transmitter with a new one, check if the transmitter used as replacement is already registered in any other receiver. If necessary, erase the transmitter from other receivers before performing the replacement procedure.

IMPORTANT! The replacement number to be used is the one associated to the transmitter to be replaced (i.e. the old, lost or damaged transmitter).

Replace ID: Use the mobile app and scan the QR Code to get a Replace ID.

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode")
Use buttons 1 and 2 to move up and down the menu options.
3. Navigate to the [2 Replace] menu.
4. Press **Right Start** button to confirm.
The display shows: [000000000]
5. Enter the digits of the Replace ID of the transmitter **to be replaced** (i.e. the old, lost or damaged transmitter) .
The Replace ID has a maximum of 11 digits between 1–8.
Use buttons 1–2 to change the digits and buttons 3–4 to move between the digits.

Button 1	Decrease (count -1)
Button 2	Increase (count +1)
Button 3	Move to next digit on the left
Button 4	Move to next digit on the right

6. Press **Right Start** button to confirm.
The display shows: [Replacing transmitter "Replace ID". Please wait]
7. Due to simplex no feedback will be communicated back from receiver.

8.5 Show/ change current radio frequency channel

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode")
Use buttons 1 and 2 to move up and down the menu options.
3. Navigate to the [3 Radio Channel] menu.
4. Press **Right Start** button to confirm.
The display shows the current radio frequency (in MHz) and the corresponding channel (CH) .
5. Use buttons 1 and 2 to change the frequency channel.

Button 1	Decrease
Button 2	Increase

6. Press **Right Start** button to confirm.
The display shows:[Changes saved!]
7. Press **Left Start** button to exit.
The display returns to the menu list.

8.6 Set the radio inactivity timeout (automatic shutdown)

NOTE: Only for **continuous** radio mode.

Set the off delay (in minutes) before the transmitter automatically turns off. Automatic shutdown helps prolong battery capacity by automatically turning the transmitter off after a preset period of inactivity.

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode").
Use buttons 1 and 2 to move up and down the menu options.
3. Navigate to the [4 Auto shutdown] menu.

4. Press **Right Start** button to confirm.
The display shows the current setting for the automatic shutdown delay. The delay can be configured between 1 to 6 minutes. If configured to "0", the automatic shutdown will be disabled and the transmitter will be on until the stop button is pressed.

5. Use buttons 1–2 to change the automatic shutdown delay.

Button 1	Decrease
Button 2	Increase

6. Press **Right Start** button to confirm.
The display shows: [Changes saved!]
7. Press **Left Start** button to exit.
The display returns to the menu list.

8.7 Select the Load select mode

NOTE: Only for **continuous** radio mode.

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode")
Use buttons 1 and 2 to move up and down the menu options.
3. Navigate to the [5 Load select] menu.
4. Press **Right Start** button to confirm.

The display shows two submenus:

[5.1 Load select]

[5.2 Load at startup]

5. Navigate to the [5.1 Load select] menu.
6. Press **Right Start** button to confirm.

The display shows the current setting for Load select (0 – 8)

Setting	Description	Default load selected at start-up ¹
0 (Disabled)	–	none
1	Rotate A/B	none
2	Rotate A/B/C	none
3	Rotate A/B/A+B	none
4	Rotate A/B/C/D	none
5	A–B/A+B	none
6	A–B	none
7	A–B/A+B and rotate C/D/C+D	none
8	A–B and rotate C/D	none

7. Use buttons 1–2 to change the Load select.

Button 1	Decrease
Button 2	Increase

8. Press **Right Start** button to confirm.
The display shows: [Changes saved!]

9. Press **Left Start** button to exit.

¹Load at start-up can be changed later on, see "Chapter 1: Load at start-up".

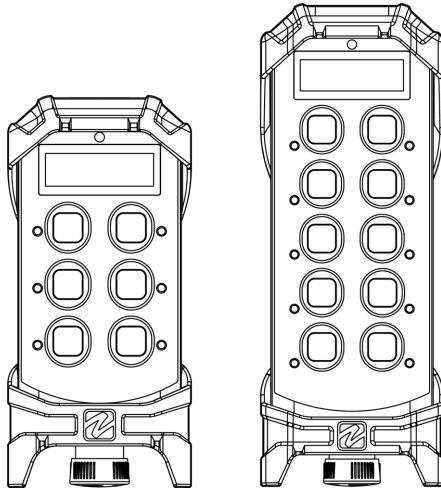
The display returns to the previous menu.

10. Press **Left Start** button to exit.

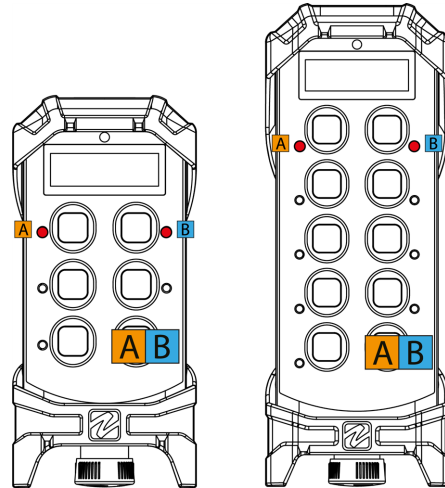
The display returns to the menu list.

8.7.1 LOAD SELECT MODE 0–8 (PANTHER)

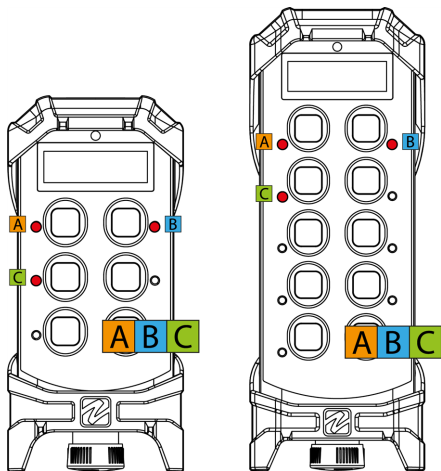
Load select mode 0



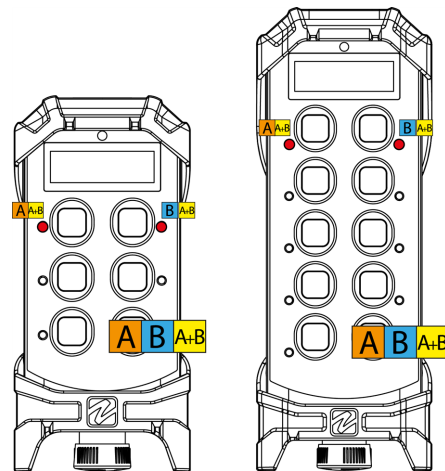
Load select mode 1



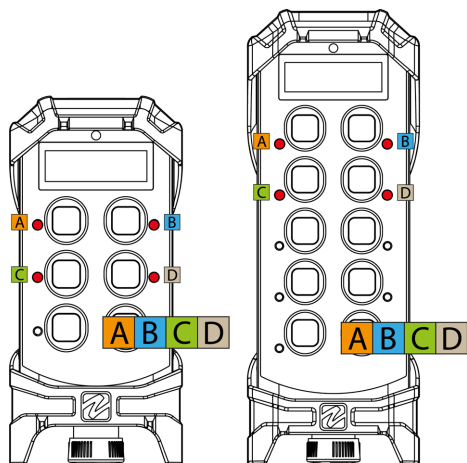
Load select mode 2



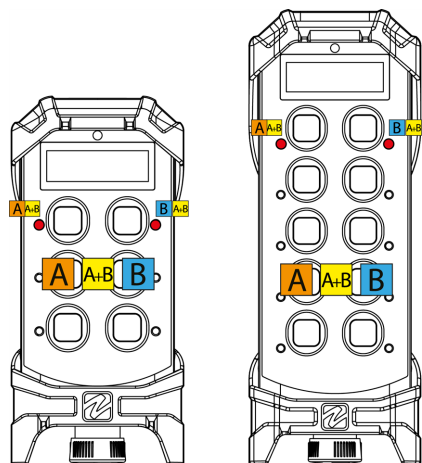
Load select mode 3



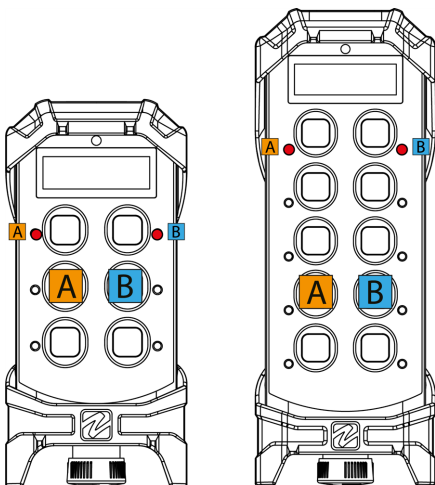
Load select mode 4



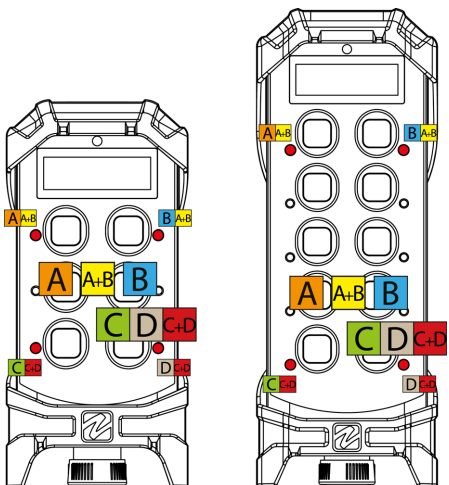
Load select mode 5



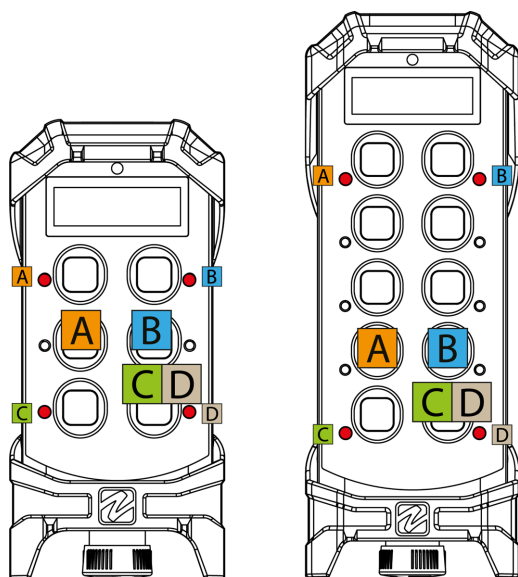
Load select mode 6



Load select mode 7



Load select mode 8



8.8 Select the load at start-up

NOTE: Make sure to have a **Load select** mode selected before following the instructions below.

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode")
Use buttons 1 and 2 to move up and down the menu options.

3. Navigate to the [5 Load select] menu.

4. Press **Right Start** button to confirm.

The display shows two submenus:

[5.1 Load select]

[5.2 Load at startup]

5. Navigate to the [5.2 Load at startup] menu.

6. Press **Right Start** button to confirm.

The display shows: [A B C D]

7. Use buttons 3–4 to move between the Loads (A–D) and buttons 1–2 to select/deselect a Load at start-up.

Button 1 or 2 indifferently	Select / Deselect
Button 3	Move to next Load on the left
Button 4	Move to next Load on the right

8. Press **Right Start** button to confirm.

The display shows: [Changes saved!]

9. Press **Left Start** button to exit.

The display returns to the previous menu.

10. Press **Left Start** button to exit.

The display returns to the menu list.

8.9 Logout from Menu mode

This logout option is mainly used when the button for quick logout is used by another function.

IMPORTANT! For the logout function to work, BOTH the receiver and the transmitter must have the logout function activated and be set to continuous radio mode.

NOTE: Logout can only be performed when the transmitter is on and a radio link with one or more receivers has been established. The receiver must be powered-up for the logout procedure to be successful.

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode").
Use buttons 1 and 2 to move up and down the menu options.
3. Navigate to the [6 Logout] menu.
4. Press **Right Start** button to confirm.
5. Press **Left Start** button to exit.
The display returns to the menu list.

8.10 Start-up protection

RFID tags can be activated to prevent unauthorized personnel from operating the transmitter. To activate RFID functions, contact your representative for assistance. All RFID settings require assistance.

If **Start-up protection** has been activated, the transmitter will require a registered RFID tag each time it is restarted, *The display shows:* `Waiting for a valid tag to be presented...`. The transmitter will only start after a valid RFID tag has been entered. Hold the RFID close to the transmitter, *The display shows:* `Tag Valid!`. And you will now be able to use the transmitter as normal.

Once **Start-up protection** has been activated, RFID tags need to be registered in the transmitter before they can be used. If **Start-up protection** has been activated but no RFID tag have been registered in the transmitter, the display will show a warning message.

8.10.1 START-UP PROTECTION – RFID

Enable RFID tags as start-up protection

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode")
Use buttons 1 and 2 to move up and down the menu options.
3. Navigate to the `[7 Startup protection]` menu.
4. Press **Right Start** button to confirm.
5. Press **Right Start** button to confirm.

The display shows two submenus:

`[7.1.0 Learn]`

`[7.1.1 Erase All]`

6. Navigate to the `[7.1.0 Learn]` menu.
7. Press **Right Start** button to confirm.
The display shows: `[Waiting for a valid tag to be presented...`
8. Hold the RFID tag close in front of the transmitter.
9. *The display shows:* `New tag added!`
If the tag is already registered a message will appear that says: `TAG already registered!`

If there is no free slot to register the RFID tag, a message will say: `No free slot available!` if no free slots, you will have to remove one or more registered RFID tags. You can remove all RFID tags by navigate to the `[7.1.1 Erase All]`, NOTE! this will delete all registered RFID tags.

10. Press **Right Start** button to confirm.
The display shows: `[Changes saved!]`
11. Press **Left Start** button to exit.
The display returns to the previous menu.
12. Press **Left Start** button to exit.
The display returns to the previous menu.
13. Press **Left Start** button to exit.
The display returns to the menu list.

Disable RFID tags as start-up protection

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode")
Use buttons 1 and 2 to move up and down the menu options.
3. Navigate to the `[7 Startup protection]` menu.
4. Press **Right Start** button to confirm.
The display shows onesubmenu: `[7.1 RFID]`
5. Press **Right Start** button to confirm.
The display shows two submenus: `[7.1.0 Learn]`
`[7.1.1 Erase All]`
6. Navigate to the `[7.1.1 Erase All]` menu.
7. Press **Right Start** button to confirm.
The display shows: `Erase all[No`
8. Use buttons 1 or 2 to change "No" to "Yes".
9. Press **Right Start** button to confirm.
The display shows: `[RFID ERASED!]`
10. Press **Left Start** button to exit.
The display returns to the previous menu.

11. Press **Left Start** button to exit.
The display returns to the previous menu.
12. Press **Left Start** button to exit.
The display returns to the menu list.

8.10.2 START-UP PROTECTION – PIN CODES

PIN codes can be activated to prevent unauthorized personnel from operating the transmitter.

NOTE: The PIN code function cannot be activated/deactivated from the transmitter. Contact your representative for assistance.

If **PIN Code** has been activated, the transmitter will require a registered PIN code each time it is restarted. The transmitter will only start after a valid PIN code has been entered.

8.11 System information

There are three system information panels available by default: battery information, accelerometer information and software information. Use **Right Start** button to move between the different panels.

1. Make sure that the **Stop** button is pressed.
2. Enter **Menu mode** (see "8.3 Enter menu mode").
Use buttons 1 and 2 to move up and down the menu options.
3. Navigate to the [8 Sysinfo] menu.
4. Press **Right Start** button to confirm.
The display shows: [8 Sysinfo Battery] and the voltage, current and charge information for the battery.
5. Press **Right Start** button to move to next information panel.
The display shows: [8 Sysinfo Accelerometer]. Displays the X,Y,Z axis of the accelerometer gyro.
6. Press **Right Start** button to move to next information panel.
The display shows: [8 Sysinfo Plugin SW]. Displays the type of transmitter (e.g. [6 button TX (T35)]), the plugin version (e.g. [AP0001-0001v01pre])
7. Press **Right Start** button to move to next information panel.
The display shows: [8 Sysinfo FW CPUs]. Displays the CPUs software version (e.g. [3:SW0046-09v01pre] [1:SW0046-07v03] [2:SW0046-08v03])
8. Press **Right Start** button to move to next information panel.
The display shows: [8 Sysinfo Prod data]. Displays ID number and hardware version and variant.
9. Press **Right Start** button to move to next information panel.
The display shows: [8 Sysinfo Machine ID].
10. Press **Left Start** button to exit.
The display returns to the menu list.

8.12 Miscellaneous

This menu has three submenus for user interface settings, like adjusting the brightness of the backlight, the volume of the buzzer, and setting the time zone. It has also a submenu for Bluetooth option.

1. Make sure that the **Stop** button is pressed.

1. Enter **Menu mode** (see "8.3 Enter menu mode")

Use buttons 1 and 2 to move up and down the menu options.

2. Navigate to the [9 Misc] menu.

3. Press **Right Start** button to confirm.

The display shows four submenus:

[9.1 Backlight]

[9.2 Buzzer]

[9.3 Time]

[9.4 Bluetooth]

8.12.1 ADJUST THE BRIGHTNESS OF THE BACKLIGHT

1. Navigate to the [9.1 Backlight] menu.

2. Press **Right Start** button to confirm.

The display shows: [50%]

3. Use buttons 1–2 to change the brightness value.

Button 1	Decrease
Button 2	Increase

4. Press **Right Start** button to confirm.

The display shows: [Changes saved!]

5. Press **Left Start** button to exit.

The display returns to the previous menu.

6. Press **Left Start** button to exit.

The display returns to the menu list.

8.12.2 ADJUST THE VOLUME OF THE BUZZER

1. Navigate to the `[9.2 Buzzer]` menu.
2. Press **Right Start** button to confirm.
The display shows the current setting for the buzzer volume.
The buzzer volume can be configured between 0% to 100% with 10% increments.
3. Use buttons 1–2 to change the volume of the buzzer.

Button 1	Decrease
Button 2	Increase

4. Press **Right Start** button to confirm.
The display shows: `[Changes saved!]`
5. Press **Left Start** button to exit.
The display returns to the previous menu.
6. Press **Left Start** button to exit.
The display returns to the menu list.

8.12.3 ADJUST THE TIME ZONE

Adjust the time shown on the display, in relation to the Coordinated Universal Time (UTC).

1. Navigate to the [9.3 Time] menu.
2. Press **Right Start** button to confirm.
The display shows: [Timezone 2h] (value between UTC-11 – UTC+14)
3. Use buttons 1–2 to change the time zone.

Button 1	Decrease
Button 2	Increase

4. Press **Right Start** button to confirm.
The display shows: [Changes saved!]
5. Press **Left Start** button to exit.
The display returns to the previous menu.
6. Press **Left Start** button to exit.
The display returns to the menu list.

8.12.4 BLUETOOTH

Enable/disable the Bluetooth.

1. Navigate to the [9.4 Bluetooth] menu.
2. Press **Right Start** button to confirm.
The display shows: [Yes/No]
3. **XXX**

CHAPTER 9: BATTERY

9.1 Battery precautions

Carefully read the following safety instructions and warnings before using, charging or disposing of the batteries.



Batteries contain flammable substances such as lithium or other organic solvents, which may result in overheating, rupture or combustion. Failure to read and follow the below instructions may result in fire, personal injury and damage to property if charged or used improperly.

9.1.1 HANDLING AND STORAGE



- Risk of explosion if battery is replaced with a battery of an incorrect type.
- Do not short-circuit, disassemble, deform or heat batteries.
- Never attempt to charge a visibly damaged or frozen battery.
- Do not use or charge the battery if it appears to be leaking, deformed or damaged in any way.
- Do not solder directly onto batteries.
- Do not leave the battery in the charger once it is fully charged.
- Store in a cool location. Keep batteries away from direct sunlight, high temperature, and high humidity.
- Immediately discontinue use of the battery if, while using, charging, or storing the battery, the battery emits an unusual smell, feels hot, changes color, changes shape, or appears abnormal in any other way.
- Keep batteries out of reach of small children. Should a child swallow a battery, consult a physician immediately.

9.1.2 DISPOSAL

When discarding batteries, insulate the + and - terminals of batteries with insulating/ masking tape.



- **Do not place multiple batteries in the same plastic bag.**
- **Do not incinerate or dispose of batteries in fire.**
- **Do not place used batteries in the household waste. Dispose of used batteries in accordance with the applicable regulations and legal requirements.**
- **Batteries that have been disposed of incorrectly may short circuit, causing them to become hot, burst or ignite.**

9.2 Battery information

NOTE: Only batteries approved by Tele Radio should be used in T35/T36 transmitters.

NOTE: When the battery capacity reaches approximately 10 %, the top LED lights red.

The T36 transmitter is supplied and shall be used together with a D4-13 battery.

Article number	103450	D4-13
Type of battery	Internal, rechargeable lithium-ion battery	Replaceable, rechargeable lithium-ion battery 3.7 V, 2000 mAh, 7.4 Wh
Charge:	via the charger plug on the back of the transmitter, with AC adapter ¹	option 1 via the charger plug on the back of the transmitter, with AC adapter ² option 2 In charger unit D4-01.
Charging time (typical with an empty battery)	Approximately 4 h	Approximately 4 h
Charging temperature	+10...+35 °C / +50...+95 °F	+10...+35 °C / +50...+95 °F
Storage temperature	-20...+55 °C / -4...+131 °F	-20...+55 °C / -4...+131 °F

9.2.1 REMOVAL OF THE INTERNAL BATTERY (T35)

Electronics and batteries must be physically separated before disposal.

1. Remove the clip. Use a screwdriver to remove the screws.
2. Remove the rubber cover by hand.
3. Use a screwdriver to remove the screws in the back of the transmitter.
4. Gently pull to release the back encapsulation (black).
5. Remove the back encapsulation by hand.

¹100-001-057-18 (M769720) multi charger power supply 12V DC. Must be purchased separately.

²100-001-057-18 (M769720) multi charger power supply 12V DC. Must be purchased separately.

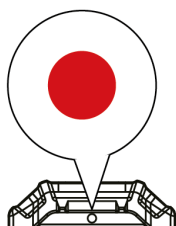
6. Turn it over so the circuit board is facing upwards.
7. Use a screwdriver to remove the screw(s) on the circuit board.
8. Unplug connectors, if any.
9. Gently lift up the circuit board by hand. The battery pack is located behind the circuit board.
10. Remove the battery by hand.

9.2.2 CHARGE THE BATTERY

T36: Battery D4-13 can be charged directly on the transmitter or in the table/wall charger D4-01. For more information, see "9.2 Battery information".

T35 with internal battery can only be charged directly on the transmitter.

NOTE: For T35 transmitters, the 1/O switch must be in the 1/on position when charging.



When the battery capacity reaches approximately 10 %, the top LED lights red.

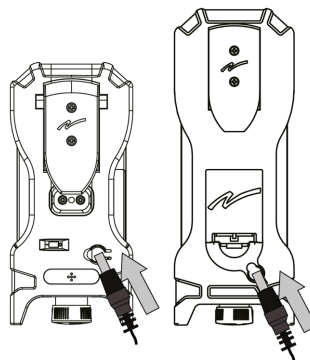
NOTE: If the transmitter has a D4-13 replaceable rechargeable battery it can either be recharged directly on the transmitter or using the D4-01 charger unit.

Charging on the transmitter

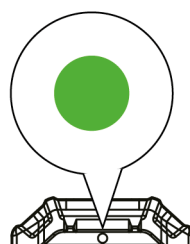
NOTE: Applies to D4-13 battery only or internal rechargeable battery.

1. Lift the protection cap.
2. Insert the charger plug into the socket on the back of the transmitter.

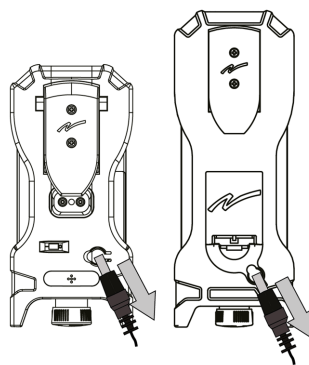
The top LED flashes red while the battery is charging.



The top LED turns green when the battery is fully charged.



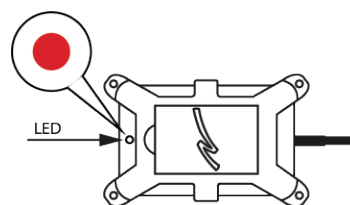
3. Remove the charger plug and close the protection cap.



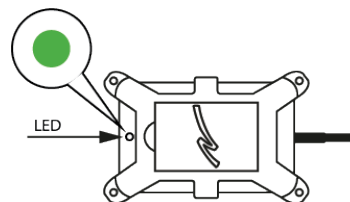
Charging using the charger unit

NOTE: Applies to T36

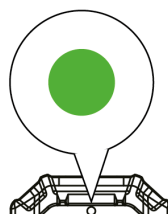
1. Remove the rubber cover from the transmitter.
2. Remove the battery from the transmitter
3. Place the battery in the charger.
The charger's LED lights red while the battery is charging.



The charger's LED turns green when the battery is fully charged.



3. Remove the battery from the charger unit.
4. Put the battery back in the transmitter.
The top LED lights green when the battery is fully charged.



CHAPTER 10: WARRANTY, SERVICE, REPAIRS, AND MAINTENANCE

Tele Radio products are covered by a warranty against material, construction and manufacturing faults. During the warranty period, Tele Radio may replace the product or faulty parts. Work under warranty must be performed by Tele Radio or by an authorized service center specified by Tele Radio.

The following are **not** covered by the warranty:

- Faults resulting from normal wear and tear
- Parts of a consumable nature
- Products that have been subject to unauthorized modifications
- Faults resulting from incorrect installation and use
- Damp and water damage

Maintenance

- Repairs and maintenance must be performed by qualified personnel
- Only use spare parts from Tele Radio
- Contact your representative for service or any other assistance
- Keep the product in a clean, dry place
- Keep contacts and antennas clean
- Wipe off dust using a slightly damp, clean cloth

NOTE: Never use cleaning solutions or high-pressure washer.

CHAPTER 11: REGULATORY INFORMATION

11.1 Europe

Applies to: **T35, T36**

11.1.1 CE MARKING



Hereby, Allgon AB, declares that the product(s) listed above is/are in compliance with the Radio Equipment Directive 2014/53/EU.

The latest version of the complete EU Declaration of Conformity is available at the following website: www.tele-radio.com.

11.1.2 WEEE DIRECTIVE



This symbol means that inoperative electrical and electronic products must not be mixed with household waste. The European Union has implemented a collection and recycling system for which producers are responsible. For proper treatment, recovery and recycling, please take this product to a designated collection point.

Tele Radio strives to minimize the use of hazardous materials, promotes reuse and recycling, and reduces emissions to air, soil and water. When a commercially viable alternative is available, Tele Radio strives to restrict or eliminate substances and materials that pose an environmental, health or safety risk.

11.1.3 UK IMPORTER

UK Importer: Tele Radio (UK) LTD

1 SEYMOUR COURT,
MANOR PARK, RUNCORN, WA7 1SY, UK
Email: sales@teleradiouk.com

11.2 North America

Applies to: **T35, T36**

11.2.1 FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

11.2.2 IC STATEMENT

This product complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- 1) l'appareil ne doit pas produire de brouillage;
- 2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

11.2.3 FCC/IC LABELS

The radio module in this product is labeled with its own FCC ID and IC numbers. The FCC ID and IC numbers are not visible when the radio module is installed inside another device. Therefore, the outside of the device into which the module is installed must also display a label referring to the enclosed radio module. The final end device must be labeled in a visible area with the following:

Contains FCC ID: 2BC3H2316A

Contains IC: 31388-2316A

Contains FCC ID: 2BC3H2316B

Contains IC: 31388-2316B

11.3 Radio module

Each radio module is specifically designed to match a Tele Radio product in terms of physical dimensions, connection points, voltage levels, signal interface etc. To use the radio modules in non Tele Radio products is not permitted. The radio modules are designed to interface directly to the main board of the receiver/transmitter unit. They are power supplied by the main board and the radio circuit operates strictly according to instructions from a microprocessor on the main board. The radio circuit configuration is stored in a flash memory on the radio module. A receiver/transmitter unit with a defective/no radio module will give an error message immediately after power up, and it will not be possible to start a radio session.

The products described in these instructions contain radio module:

Model	Radio module
T36-01, T35-01	D5-40 D5-42

ANNEX A: GLOSSARY

DC

Diagnostic Coverage

FIT

Failures in time (1 FIT = 1 failure per 10^9 hours)

HFT

Hardware Fault Tolerance

MTTF

Mean Time To Failure

PFH

Probability of Failure per Hour

PL

Performance level

SFF

Safety Failure Fraction

SIL

Safety Integrity Level

ANNEX B: INDEX

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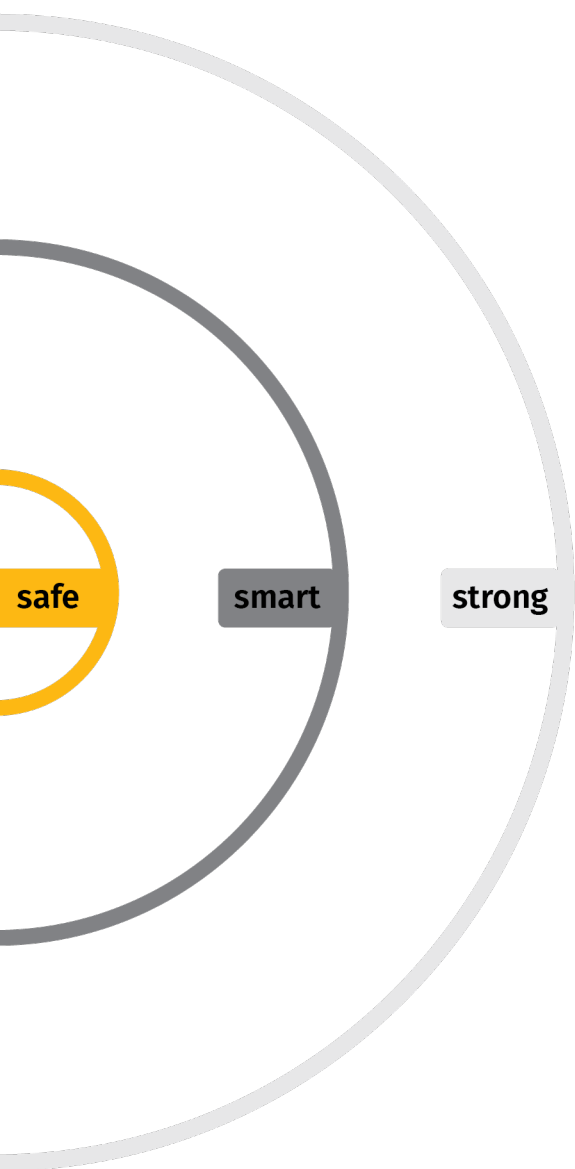
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