

TA3434-01 Transportable Mobile Repeater

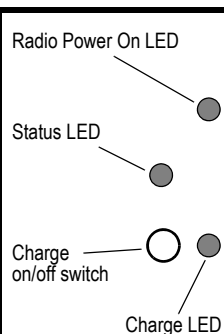
Quick Reference

This document provides a brief overview of the TA3434-01 Transportable Mobile Repeater. For full details on the operation of the mobile radio itself, refer to the TM9400 Radio Manual.

The TA3434-01 contains two TM9400 radios which share a single Control Head. They are also linked together to allow them to operate as a Repeater.

LED Operation

Four LEDs are used to indicate the state of the transportable.

LED	Indication	Details	
Radio Power On	red	radio is on	
Status	green red flashing red	battery is OK transmitter is keyed, or power-up sequence is in progress battery voltage is low	
Charge	red	battery is being charged	
Battery Status Indicator ^a (on the outside of the case near the handle)	green amber red off	battery is fully charged battery is charging but at least 90% charged battery is charging charger is not connected	

a. This LED is only lit when an external DC supply is connected.

Battery Select Switch

Warning When shipping and charging the transportable, set the battery select switch to **External DC/Battery Isolate** to comply with safety regulations.

The battery select switch is protected with a raised red surround to avoid accidental switching on when the lid is closed.

 **Warning** Risk of missed calls! Switching between **Internal Battery** and **External DC/Battery Isolate** may cause the transportable to restart.

When the switch is set to **Internal Battery**, the transportable runs from the internal battery.


When the switch is set to **External DC/Battery Isolate**, the internal battery is disconnected from all circuitry in the transportable. In this situation, all the circuits in the transportable, including the radio, can only run from an external supply. When connected to an external supply, the charger circuitry is switched on and connected to the internal battery. The

Charge and Battery Status Indicator LEDs turn on (red). When the transportable is not in use, always switch the battery select switch to External DC/Battery Isolate.

Battery Power

With a fully-charged battery, an operating regime of 10% transmit at 15 W, and 90% standby time will keep the transportable running for a minimum of 12 hours.

Battery Charging


 **Warning** Risk of fire! The lid must be open when charging. The VRLA battery may vent when charged at a current greater than 3A. This does not occur during normal charging.

The transportable will shut itself down when the internal battery voltage drops too low. When that level of discharge has been reached, it will take a bench-top power supply producing 13.8V typical (10–30 VDC) at least 12 hours to recharge the battery to full capacity. When charging, ensure the battery select switch is set to External DC/Battery Isolate. Press the recessed button located at the left of the Charge LED to turn charging off and on.

A charging cable is supplied with the transportable for connection to the DC Input connector.

Antenna

The transportable is a 15 W radio that requires a remote mounted antenna with a suitable ground plane. This antenna is to be tuned to the frequency of the radio. The transportable has an N-type antenna connector.

 **Caution** Risk of harm from RF radiation! While the Repeater is operating (transmitting), you must ensure that there is always a distance of 0.9m between people and the antenna. This is the minimum safe distance.