

TA3226-03 Transportable Rollingstock Radio

Quick Reference



This document provides a brief overview of the TA3226-03 Transportable Rollingstock Radio. For full details on the operation of the mobile radio itself, refer to the TM9300 Rollingstock Radio Operating Manual.

Power-up Sequence

The transportable goes through a 10 second power-up sequence after it is switched on. During this time the fan runs and the status LED is on.

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 | battery is OK | |
| | red | transmitter is keyed, or power-up sequence is in progress | |
| | flashing red | battery voltage is low | |
| Charge | red | battery is being charged | |
| Battery Status Indicator ^a (on the outside of the case, near the handle) | green | battery is fully charged | |
| | amber | battery is charging but at least 90% charged | |
| | red | battery is being charged | |
| | off | 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.

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

Notice 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.

Notice The on/off switch on the radio control head is disabled.

Battery Power

With a fully charged battery, an operating regime of 5% transmit at 25 W, 5% receive, and 90% standby time will keep the transportable running for a minimum of six hours. This shift life takes into account the fact that the onboard Mobile Computer Platform operates continuously while the transportable is switched on.

Battery Charging


 **Warning** The lid must be open when charging. The VRLA battery may vent when charged at a current greater than 3 A. 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 25 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** While you are transmitting (talking or sending data) on the radio, you must ensure that there is always a distance of 0.9m between people and the antenna. This is the minimum safe distance.