



EPOCH® 35 GNSS System Quick Reference Card RTK OPERATIONS

RTK Step 1: Charge the batteries

- 1 Assemble the charger. Attach the power cable and converter to the charger base.
- 2 Insert the batteries into the charging base. Ensure that the battery contacts are aligned with the base contacts of the charger.

Charging takes about three hours and is complete when the green LED light is on.

RTK Step 2: Set up the EPOCH 35 base

Note – *The measure mark for Height of Instrument measurements is the bottom perimeter of the receiver case outside of the label.*

The base receiver has no radio antenna connector.

- 1 Attach the extension pole and receiver to the tribrach.
- 2 Attach the external radio to the tripod leg.
- 3 Connect the radio antenna to the radio.
- 4 Use the Y-cable (supplied) to connect the radio, receiver, and battery. Connect the radio cable to COM port 2 on the base receiver.

Use Port 1 on the receiver for the data collector cable if you are not using Bluetooth® wireless technology.

- 5 Turn on the receiver. Wait for the self check to complete before you configure the receiver.

To select the radio channels, see the *Epoch 35 GNSS System User Guide*.

RTK Step 3: Set up the EPOCH 35 rover

- 1 Insert the battery in the rover. Ensure that the battery door is properly latched.
- 2 Attach the receiver to the range pole. Turn on the receiver and wait for the self-check to complete.
- 3 Do one of the following:
 - If you are using a Bluetooth connection, follow the instructions in the data collector software.
 - If you are not using a Bluetooth connection, connect the instrument cable to Port 1 on the receiver and then connect the 9-pin end to the data collector.
- 4 Use the rover keypad to select the radio channel that matches the base radio's setting.

If the rover receives corrections from the base radio, the radio LED flashes and **D/###** appears on the rover display.

If the receiver does not eventually display **F/###** for a fixed solution, make sure that the correction format on the base and rover are the same.



EPOCH® 35 GNSS System Quick Reference Card

NETWORK RTK (NWRTK) OPERATIONS

NWRTK Step 1: Charge the batteries

- 1 Assemble the charger. Attach the power cable and converter to the charger base.
- 2 Insert the batteries into the charging base. Ensure that the battery contacts are aligned with the base contacts of the charger

Charging takes about three hours and is complete when the green LED light is on.

For Network RTK operations, the base receiver can be used as a rover. If you plan to work in this way, Spectra Precision recommends that you purchase an additional set of batteries and an additional charger kit.

The base and rover receivers use the same batteries.

NWRTK Step 2: Set up the EPOCH 35 rover

- 1 Insert the battery in the rover. Ensure that the battery door is properly latched.
- 2 Attach the receiver to the range pole.
- 3 *Before connecting to the Network RTK service,* connect the instrument cable to Port 2 on the receiver and connect the 9-pin end of the cable to the data collector.

The field software maintains a Bluetooth connection with the receiver during network RTK operations.

Note – *For best results when using Network RTK services, select a service that uses the RTCM version 3.x correction format. This is the only format that is compatible with all receivers for both GPS and GLONASS signals. CMR and CMR+ formats, which are compatible with all receiver types that use GPS signals, are not universally compatible with all receivers that use GLONASS signals.*

NWRTK Step 3 - Set up the modem connection

- 1 Make sure that you know the modem connection information.
- 2 Use the data collector software to create a modem device.
- 3 Configure the mobile phone and then use Bluetooth technology to connect to it.
- 4 If you are using a GNSS Network RTK service, select a service that uses an RTCM 3.x correction format to ensure the best results.

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