



Radio Voice Transmitter (RVT)
Installation Manual
For
Externally Mounted Radios

IN CANADA CONTACT:

FTS FOREST TECHNOLOGY SYSTEMS, LTD.

1065 Henry Eng Place
Victoria, B.C., V9B 6B2
PH: (250) 478-5561
FAX: (250) 478-8579

ON THE INTERNET:

Web Page:	www.ftsinc.com
E-mail:	Info@ftsinc.com
Technical Support:	service@ftsinc.com

Table of Contents

Introduction	2
---------------------------	----------

Mounting radio onto the RVT

Bendix/King	2
Thales/Racal.....	6

Using the RVT

Operation.....	9
Level Settings	9
Testing Operation	9

INTRODUCTION

When the FTS voice over radio module (RVT) is attached to an FTS data logger, parameters measured and recorded by the data logger can be broadcast over a radio voice channel. The broadcast can be in response to user generated DTMF tones, or can be an alert message that warns of significant changes in some measured parameter.

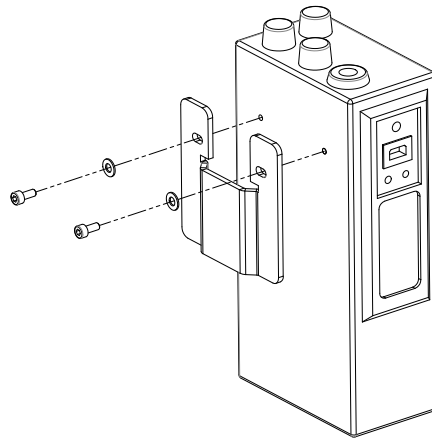
The alert messages and DTMF responses can be programmed into the voice unit and will be preserved through power interruptions. They can also be downloaded to a computer and saved for reuse or as backups. It is also possible to send saved configurations back to the voice unit. The unit is normally supplied preprogrammed to the user's specifications, but it is possible for the user to alter the programming, should there be a need.

This radio is mounted externally and can be changed by the user if the need arises. Instructions follow for radio mechanical mounting and level settings.

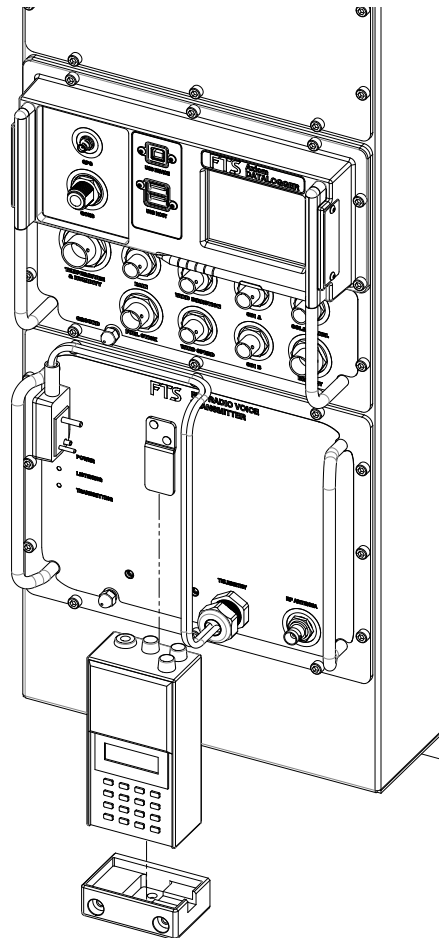
MOUNTING RADIO ONTO THE RVT

Installation - Bendix/King

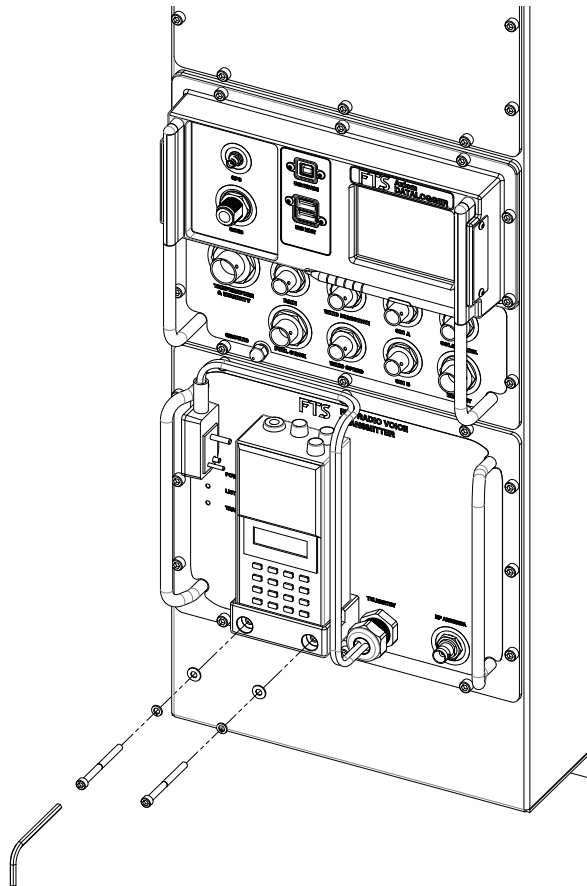
Mount bracket to radio with M2 socket cap screws and washers as shown. Apply loctite 222 to socket cap screws before securing bracket to radio.



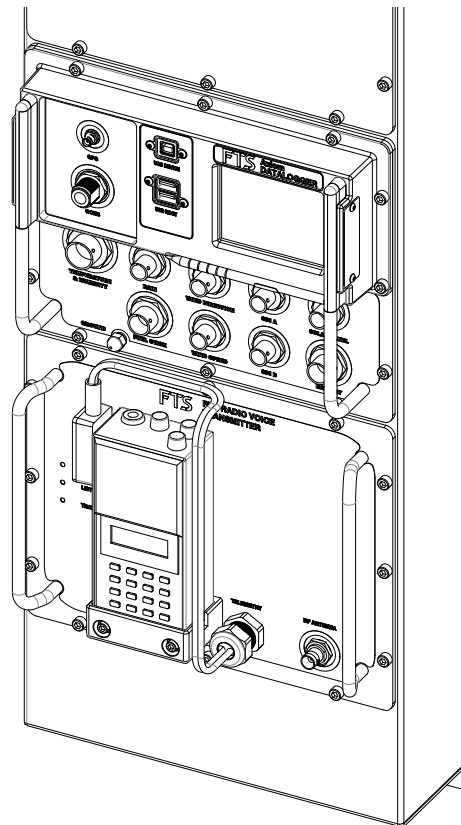
Slide radio onto faceplate metal bracket as shown. Slide end retaining block under radio until mounting holes line up with the faceplate pemserts.



Secure end retaining block
with 8-32 socket cap
screws, lock washers and
flat washers as shown.
Use a 9/64" Allen key
supplied with RVT.



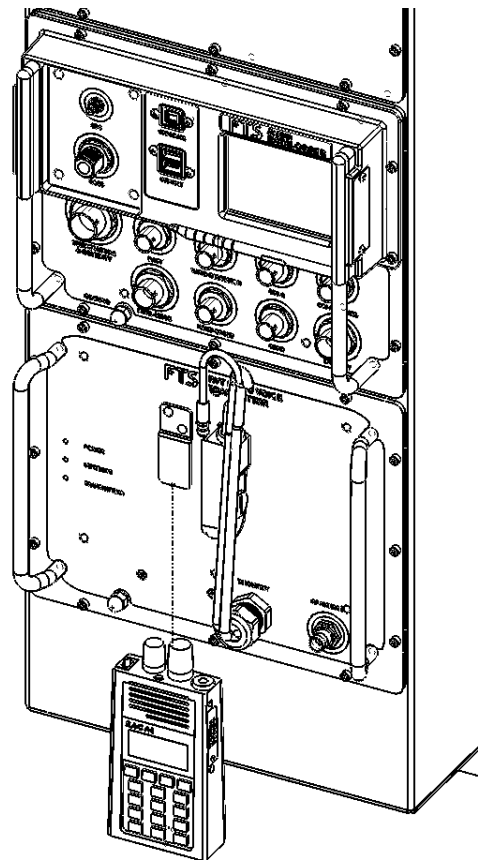
Secure audio side
connector to King radio.
Adjust level settings as
required.



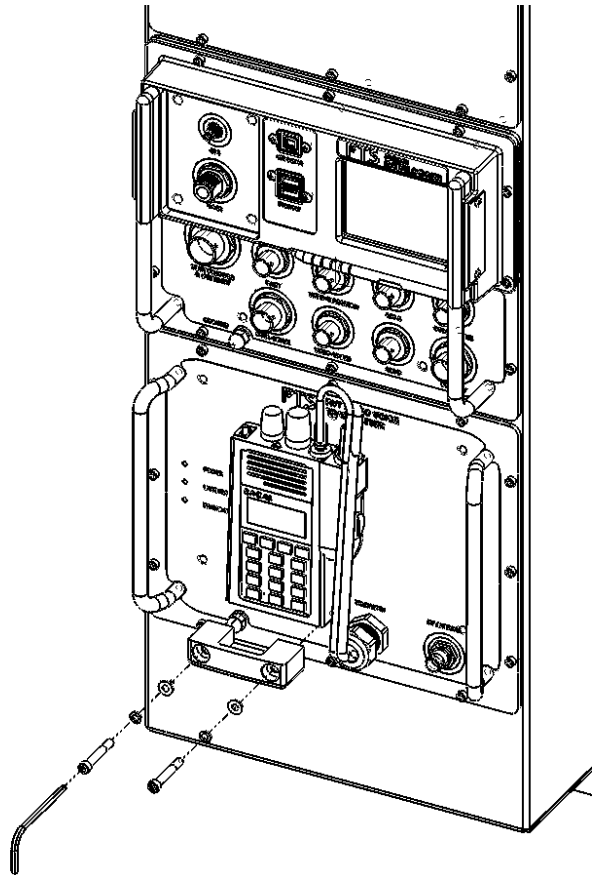
MOUNTING RADIO ONTO THE RVT

Installation - Thales/Racal

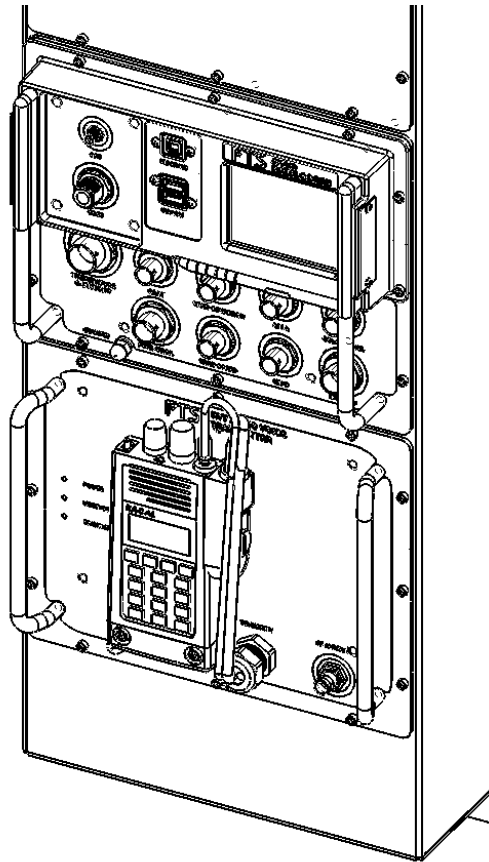
Connect the SMA jack to the plug on the radio.
The radio must be rotated onto the SMA jack
as the coaxial cable is fixed in position by the
gland. Then, slide the radio onto the faceplate
metal bracket as shown.



Secure end retaining block with
8-32 socket cap screws, lock
washers and flat washers as
shown. Use a 9/64" Allen key
supplied with RVT.



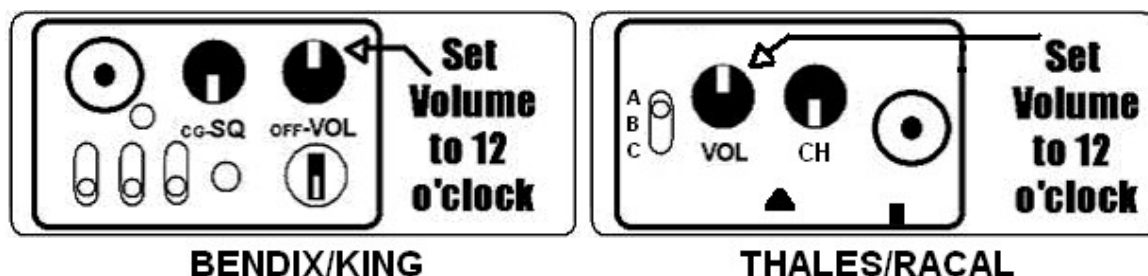
Secure audio side connector to Racal
radio. Adjust level settings as required.



USING THE RVT

Radio Settings

- Select appropriate channel.
- Adjust the volume level settings on the radio in order to enable the correct detection of DTMF tones.



Operation

Your RVT unit will normally come pre-configured and ready to operate. With the RVT there will be a copy of a configuration report that will tell you the frequency of the radio and the tones that have been set up.

If your unit was ordered without an installed configuration you will need to configure the unit before operation. (Refer to FTS manual 700-RVT or 700-RVT-QD, Advanced Operation & Programming Section).

Once the unit is powered up, there are three lights on the front panel that indicate the current status of the RVT:

- Power: This flashes slowly if power is present
- Listen: This is lit when listening for DTMF tones. It goes out when the radio is transmitting or the radio power strobe system has turned off the radio.
- Transmit: This indicates that the radio is transmitting.

Refer to document 700-RVT for further reference.

Testing Operation

To test the unit, you will need a handheld radio configured for the same frequency as the radio mounted to the RVT. Enter a DTMF tone sequence on the handheld radio that matches one of the programmed tone sequences. The unit should broadcast over the radio link the desired data logger parameters. The frequency of the radio inside the voice module and the programmed DTMF tone sequences are listed on the configuration report attached to the voice module.

This page intentionally left blank

