



MOTOROLA

UHF EXTERNAL PRESELECTOR MODULE

Model CLN1218 (403 to 433 MHz)

Model CLN1219 (433 to 470 MHz)

1

DESCRIPTION

The UHF External Preselector, Models CLN1218, CLN1219, provide 3 poles of bandpass filtering for the station receive RF input signal. The filter assembly is mounted at the rear of the station. It includes mini-UHF connectors for input from the receive antenna and output to the Receiver module.

The information provided is sufficient to give service personnel a functional understanding of the module, allowing maintenance and troubleshooting to the module level. (Refer also to the Maintenance and Troubleshooting section of this manual for detailed troubleshooting procedures for all modules in the station.)

General Description

The external Preselector assembly is a 3-pole bandpass filter equipped with tuning slugs to adjust the passband corresponding to the operating frequency(s) of the station.

If the external Preselector option is being added to a station:

1. Attach the Preselector to the station according the mounting position and cable connection information provided in this section.
2. Tune the preselector circuitry by following the *Preselector Field Tuning Procedures*, located in the Troubleshooting section of this manual.

2 INPUTS AND OUTPUT CONNECTIONS

Figure 1 shows the UHF External Preselector input and output connections and the tuning cavities and tuning screws.

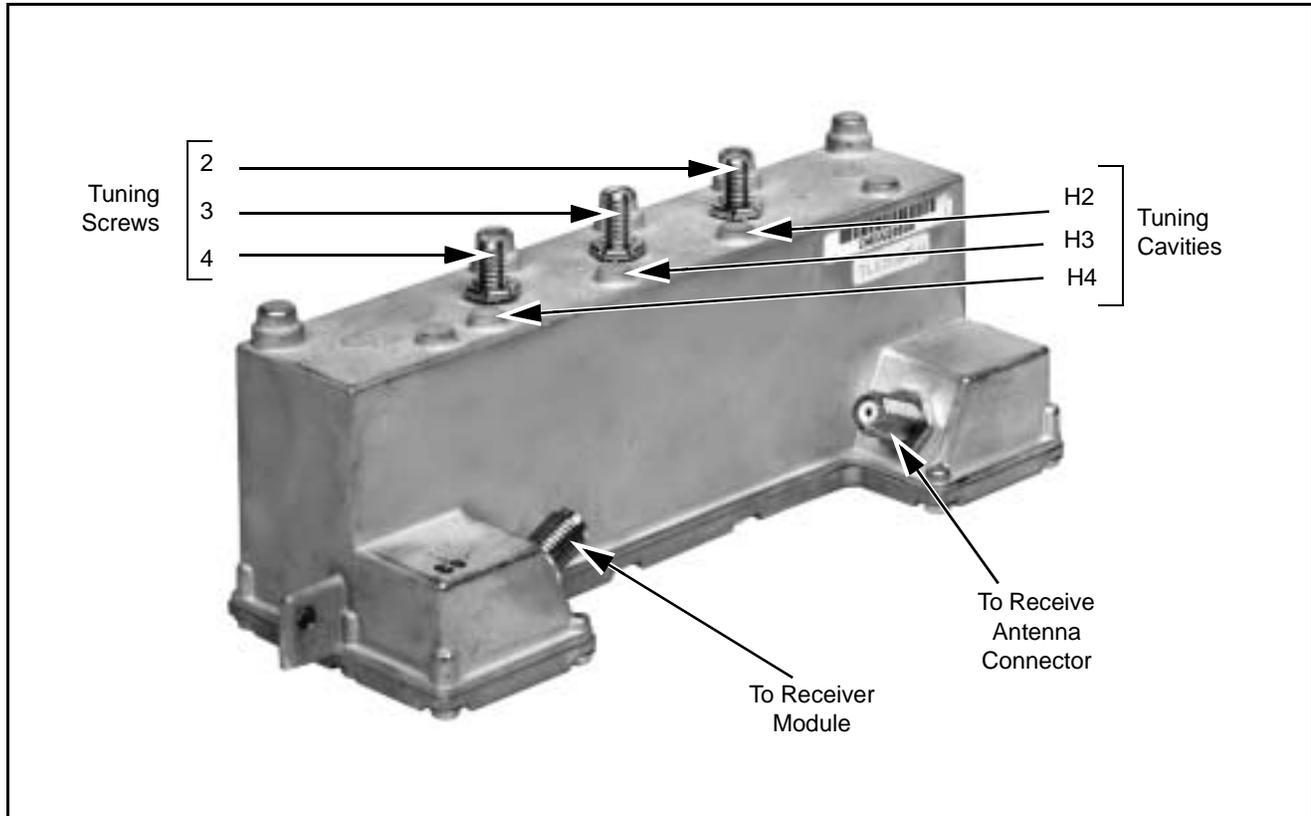


Figure 1. UHF External Preselector – Input/Output Connectors and Tuning Screws/Cavities

Cables

The set of cables used to connect an External Preselector to the MTR2000 station depends on what ancillary equipment is connected to the station.

A station can be configured with the following ancillary equipment:

- an External Preselector only.
Figure 2 shows the kit required when only an External Preselector is installed on a station.
- an External Preselector and an Antenna Relay.
See the Antenna Relay, Cables section for details.
- an External Preselector and an External Double Circulator.
See the External Double Circulator, Cables section for details.
- an External Preselector, an Antenna Relay, and an External Double Circulator.
See the Antenna Relay, Cables section for details.

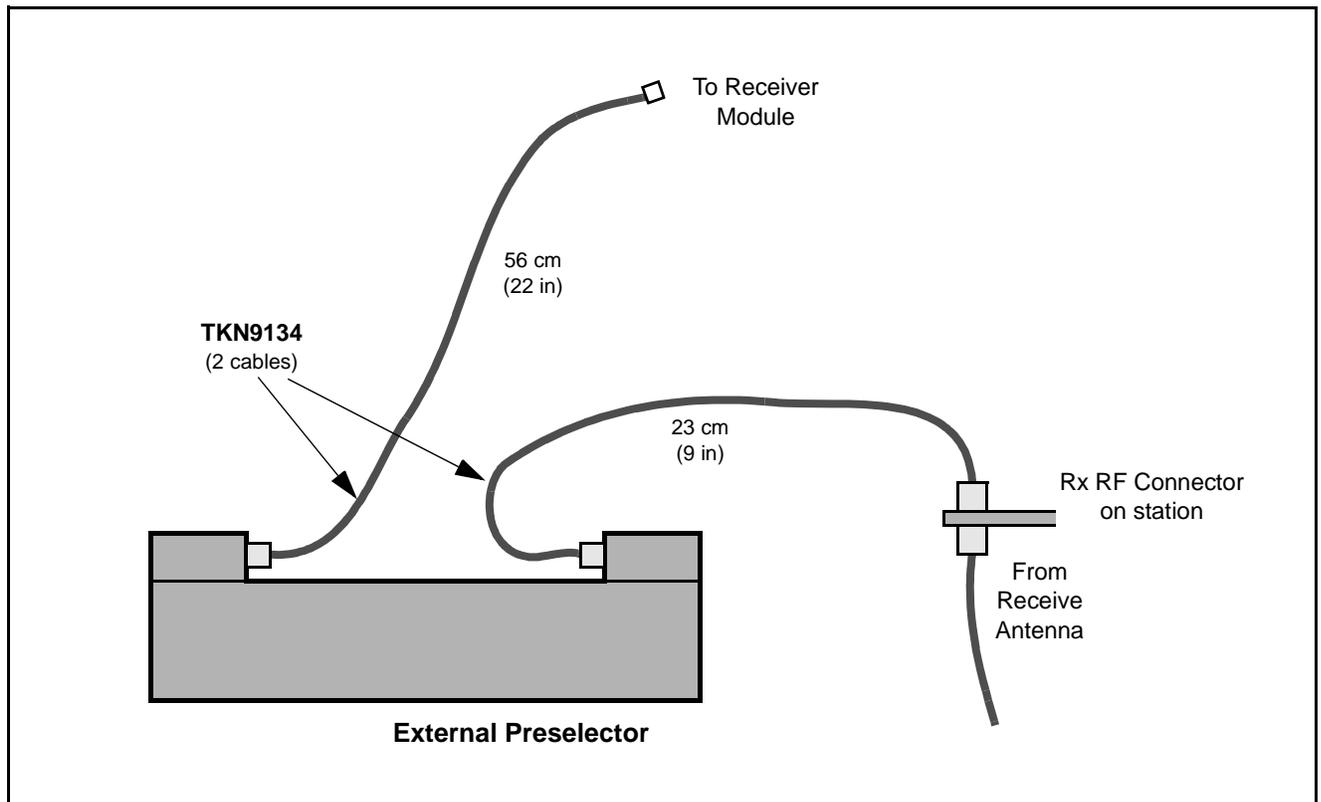


Figure 2. External Preselector Only – Cable Kit

3 OPTIONS COMPLEMENT

Table 1 shows the constants for the UHF External Preselector options.

Option Complement Chart

Table 1. UHF External Preselector Option Complement

Option	Application	Option Contents
X265AC	MTR2000 Station 403 to 433 MHz	TLE5991A UHF Preselector assembly TRN7799A VHF/UHF Tuning Kit
X265AD	MTR2000 Station 433 to 470 MHz	TLE5992A UHF Preselector assembly TRN7799A VHF/UHF Tuning Kit

4 MOUNTING LOCATION

The External Preselector is installed at the rear of the station. Stations equipped with the External Preselector option are shipped with the External Preselector installed as shown in Figure 3.

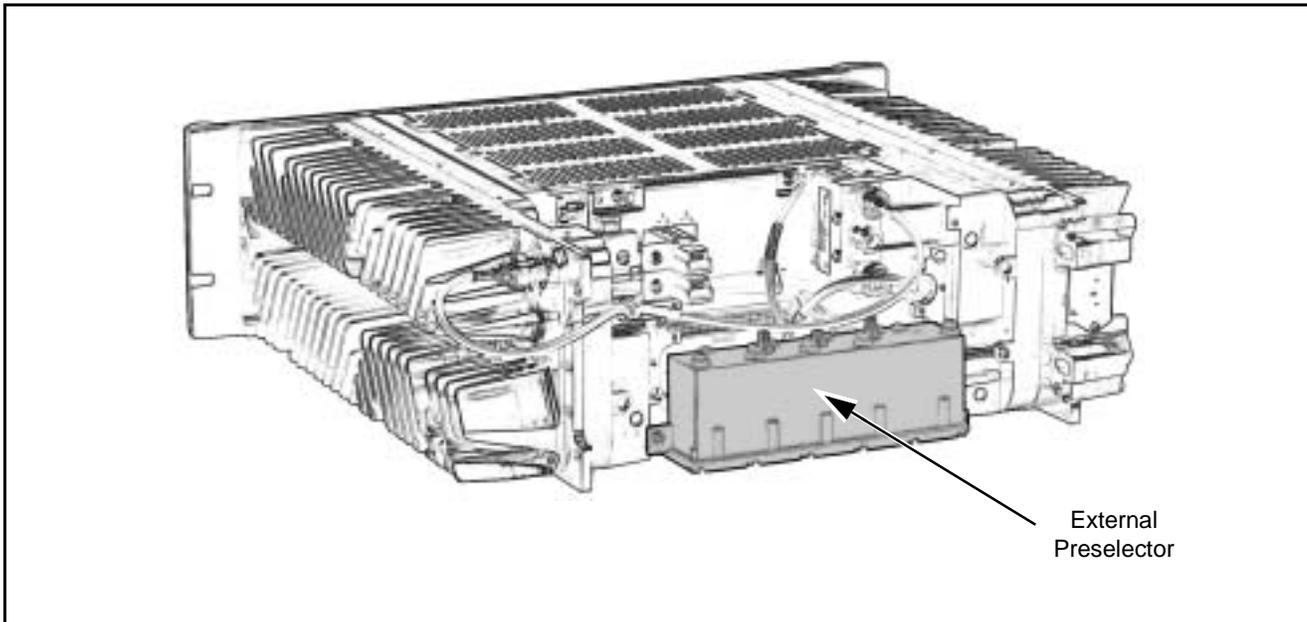


Figure 3. Mounting Position for External Preselector