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Pace Service Bulletin #0004

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SERVICE BULLETIN # 0004

MOBILE INSTALLATION HINTS

To those readily familiar with transistorized CB radio equipment, there is a tendency to install and operate the equipment without reading the details in the instructions manual. In particular, the following precautionary notes should be strictly observed.

DO NOT attempt to connect the power cord to a primary source with the power switch on. Determine system polarity before connection.

DO NOT use a ground type speaker.

DO NOT plug in external PA speaker with the power on.

DO NOT key the transmitter without an antenna connected.

DO NOT replace the fuse with any other type.

DO NOT attempt alignment of the transmitter to the antenna. Loss of modulation power and inefficient operation possibly resulting in transistor burnout will occur unless the factory prescribed tuning procedure is followed. Maximum efficiency of an installation will result when the antenna has a VSWR of less than 1.5:1. The antenna should be tuned, trimmed, or replaced, if necessary, to achieve this.

No other single part of the system can be as significant a factor in complete success or total failure of performance as the antenna installation. It is advisable not to experiment, but rather to use performance proven antennas. Many new "miracle" antennas appear on the market from time to time, but most of them disappear after a short period. Bumper mounts are inadvisable because of their extreme directivity. Consult your dealer for the correct type and installation.

The length of the cable from the antenna to the radio is, contrary to popular belief, not important. \*What is important is that the antenna have low VSWR. If a shortened type of antenna is used, it is mandatory that the VSWR be checked. A PACE P5403A VSWR bridge or similar instrument can be used. If the VSWR is greater than 1.5:1, the antenna must be adjusted in accordance with the manufacturer's instructions. If the antenna is a 1/4 wave nonadjustable type, the cable connections and the ground to vehicle at the antenna mount should be checked.

#### POWER CONNECTIONS

The transceiver is designed to operate from a nominal 12 volt DC source. This unit may be installed in vehicles which have either positive or negative ground. Since all passenger vehicles and most trucks use 12 volt negative ground systems, the power line is filtered for best noise limiting under negative ground installations, with the fuse in the red (+) line.

\* Recommend as short as possible cable to reduce attenuation.

NOTE:

When installing in 12 volt positive ground systems, the red lead is still connected to the positive terminal and the black lead to the negative terminal. This means your grounded lead is fused, which will still give you the same over-current protection.

For noise problems refer to Service Bulletins #73102 and #7471.