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INCORPORATED

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C3019A UTILITY RADIO ADAPTER OPERATOR'S INSTRUCTIONS

INTRODUCTION

The David Clark Company Model C3019A Utility Radio Adapter allows the use of H3000 Series headsets with most Land Mobile Radios having a common GND for both the mic line and the PTT line. It is compatible with many radio systems that require carbon equivalent microphones (DC bias on microphone audio line). The C3019A also interfaces with radios which do not provide DC bias on the microphone audio line. However, this second situation requires that 13.8 V.D.C. be provided from a switched, filtered voltage supply source. For normal operation, this supply source should be connected to pin G on the adapter MS connector. The internal 4PDT switch is factory set to interface with radios which do not provide enough D.C. bias voltage to drive the microphone. However, this switch may be actuated to its other position to allow the adapter to interface with radios which do provide enough mic bias (8-16 V.D.C. through 470 Ω resistor) voltage on the mic line. An internal trimmer pot is also included to adjust the TX mic audio signal to the required level.

Use of the adapter will have a negligible impact on vehicle battery life; however, adapter power should always be switched off when the vehicle is turned off. The C3019A also provides an optional off-hook revert function of the radio's scan feature.

The adapters are lightweight, belt worn units incorporating a permanently attached radio interface cord, Push-To-Talk (PTT) switch with off-hook revert function, listen volume control, and quick-disconnect connector for the headset cord.

WEARING THE EQUIPMENT

The adapter is generally attached to the wearer's belt but can be used in any convenient location. Select a location that allows freedom of movement while providing ready access to the PTT switch.

OPERATION

Operation of the unit is completely straightforward. It is important to remember that the PTT switch on the adapter housing is pressed to transmit and released to receive. This adapter is only designed to accommodate radios which require the mic hook line to be "open circuited" in an "off-hook" condition and GND'ED in an "on-hook" condition. (Please consult your radio's manufacturer to determine your radio's mic-hook operating mode).