b. Set the switch on the RPI so that it is toward the LED.

c. Start the program by typing DM_LOAD (Enter) at the DOS prompt. When the opening screen is displayed, turn transceiver power on. If power is already on, cycle power off and then on. The transceiver display should be blank and the RPI LED should be amber.

d. Highlight the first selection in the loader program's menu and then press the Enter key to begin the data transfer. Programming requires approximately 90 seconds.

e. Disconnect the programming cable from the transceiver and cycle power off and on. Verify that the new revision number is displayed momentarily when power is turned on (see Section 3.6.14).

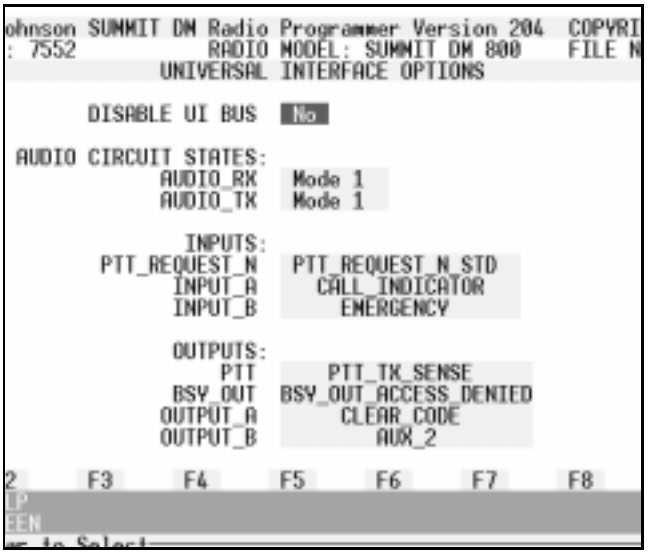

Figure 4-17 Main Universal Interface Screen

4.8 UNIVERSAL INTERFACE PROGRAMMING

4.8.1 INTRODUCTION

The UD²I™ (Universal Digital and Data Interface) feature is available on all Summit DM transceivers that have Version 207 or later operating software (see Appendix A). Optional universal interface pigtail cable assembly, Part No. 597-2002-245 is required to utilize this interface (the Validation Key is no longer required). The cable provides a female 25-pin D-type connector for interfacing with the data equipment. This is a non-proprietary interface that can be used to connect various types of data equipment such as modems and the Status Message Unit to the transceiver. A detailed description on the operation of this interface is located in Appendix B. This information can be used to design and set up equipment for use with this interface.

Various aspects of this interface are programmable using the standard transceiver programming software (Version 202 or later). The parameters that can be programmed and configurations that can be selected for each are described in the following information. Since the specific configuration of these parameters is determined by the equipment being used, detailed programming instructions are not included in this manual (this information should be provided by the equipment manufacturer).

*NOTE: All interface parameters should be left in the default condition (indicated by *) unless instructed otherwise in the installation information provided with the data equipment. Failure to do so may result in improper transceiver operation.*

4.8.2 MAIN PARAMETERS SCREEN

Universal interface parameters that are the same for all systems are programmed using the main Universal Interface Options screen shown in Figure 4-17. This screen is selected by pressing the F4 key from the Main Radio Parameters screen (see Section 4.4.2). The parameters that can be programmed using this screen and the available choices are as follows:

NOTE: For more information on the configuration selected by each option, refer to Appendix B.

MAIN PARAMETERS

Disable UI Bus - Yes, No*

Audio Circuit States
Audio_Rx - Modes 1*, 2, 3, 4
Audio_Tx - Modes 1*, 2, 3, 4

NOTE: The system level programming described in the next section overrides the preceding Audio Rx/Tx programming except if "Undefined" is programmed.

Inputs

PTT_Request_N - PTT_Request_N_Std*
PTT_Request_N_Inh
PTT_Request_N_Data
PTT_Request_N_Data_R
Undefined

Input_A - Call_Indicator*
Mic_Mute
Horn
Data_ARQ
Undefined

Input_B - Emergency*
Mic_Mute
Horn
Call_Indicator
Undefined

Outputs

PTT - PTT_Tx_Sense*
PTT_Standard
PTT_Tx_Sense
Undefined

BSY_Out - Bsy_Out_Access_Denied*
Busy_Out_RSSI
Undefined

Output_A - Clear_Code*
Clear-To_Send
Monitor_Hanger
Tx_Audio_En
Aux2
Undefined

Output_B - Aux2*
Rx_Data_Group
Clear_to_Send
Monitor_Hanger
Tx_Audio_En
Undefined

** Default condition. Do not select "Undefined" because improper operation may result.*

4.8.3 SYSTEM PARAMETERS SCREEN

There are also two parameters that can be different for each system. These parameters are programmed using the system Universal Interface Options screen shown in Figure 4-18. This screen is selected from the applicable system programming screen by pressing the F4 key. The parameters that can be programmed using this screen and the available choices are as follows:

NOTE: For more information on the configuration selected by each of the following parameters, refer to Appendix B.

SYSTEM PARAMETERS

Audio Circuit States

Audio_Rx - Modes 1-4, Undefined*
Audio_Tx - Modes 1-4, Undefined*

** Default condition. If "Undefined" is selected, the radio-level parameter programmed in the preceding section is in effect.*

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Figure 4-18 System Universal Interface Screen

4.8.4 AUXILIARY AND EMERGENCY SWITCH PROGRAMMING

When the Auxiliary 2 function is programmed, it uses the OUTPUT B line of the universal interface (see Section 3.5.4). For proper operation of this switch, OUTPUT B must be programmed for the default condition of AUX2. Universal interface programming does not affect the Auxiliary 1 function.

NOTE: The problem of the Auxiliary 2 output always going to the active state at power-up has been corrected with Version 206 and later transceiver operating software.

When an external emergency switch is used, it is connected to INPUT B of the universal interface (see Section 2.4.6). For proper operation of this switch, INPUT B must be programmed for the default condition of EMERGENCY.