Using The SWIFT FUTURA Remote Processing Unit For Hall Calls
TABLE OF CONTENTS

1. INTRODUCTION ...................................................................................................... 3
2. SOFTWARE COMPATABILITY ............................................................................... 3
3. BOARD ADDRESS ................................................................................................... 3
4. DIAGNOSTIC COMMANDS.................................................................................... 4
1. INTRODUCTION
The RPU_HC2.HEX is a hex file to be burned into the 27c512 chip which is installed on the RPU_HC board. The offset address is 0F0000H and the ending address is 0FFFFFH.

Note that the RPU_HC board must run at 19 Mhz clock or faster to communicate with the SPU and the HPUs without communication errors.

2. SOFTWARE COMPATABILITY
This version of the RPU_HC works only with the SPU Software version above v.012, that is linked & located after May 15, 1996.

3. BOARD ADDRESS
Four of the sixteen pins of J5 connector are used to set the RPU_HC board address. These four pins give the board 16 unique addresses, which range from 214 to 229, and they are labeled on the board as J5-3, J5-5, J5-7 and J5-9. To select the pins, tie them to Ground. Note that pins J-15 and J-16 are Ground pins.

![J5 Pin Layout](image_url)

Figure 1
4. DIAGNOSTIC COMMANDS

The RPU_HC can execute commands from the SPU. These commands are as follow:

- **RPUR** - Reset the RPU_HC board.
- **RPUD** - Get Hall Call Setup.
- **RPUC** - Reset HPU communication errors.
- **RPUVX** - Change video screen display:
  
  **Top Screen**
  
  - \(X = 0\) - Show system confidence test.
  - \(X = 1\) - Show HPU Interrupt Status.
  - \(X = 2\) - Show Hall Call Interrupt Status.
  - \(X = 3\) - Show system errors.

  **Bottom Screen**
  
  - \(X = 8\) - Display HPU packet received.
  - \(X = 9\) - Display HPU version.
  - \(X = 10\) - Display Hall Call Setup.

- **RPUx** - Display HPU comm status on the HI terminal.
  (where \(x = 1, 2, ..\)).

The RPU_HC board will set the Hall Call(Up & Down) for EDS when it loses communication from the HPU. To disable this feature, set bit 3 of GSW 4 in the Group.