

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 0FFFFFFH.

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.

<u>J5 Pin Layout</u>	
1	.
	.
	2
3	.
	.
	4
5	.
	.
	6
7	.
	.
	8
9	.
	.
	10
11	.
	.
	12
13	.
	.
	14
15	.
	.
	16

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.

- RPU_x - 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.