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**RCSL No:** 52-AA602

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**Title:**

FPA 801 Exercise Loop

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**Keywords:**

RC8401, RC8000, Peripheral device, FPA 801 exercise loop.

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**Abstract:**

This paper describes a simple RC8000 program, which is usefull to start an FPA 801 channel program.

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(8 printed pages)

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Channel Programs for FPA 801.....Dwg No. A12919

A/S REGNECENTRALEN	Designed by	VH	Drawn by	Dwg. Office Check	Design Check	Replaces Dwg. No.	due to ECN	Replaced by Dwg. No.
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Unit  
FPA 801

Dwg. No.  
A12918

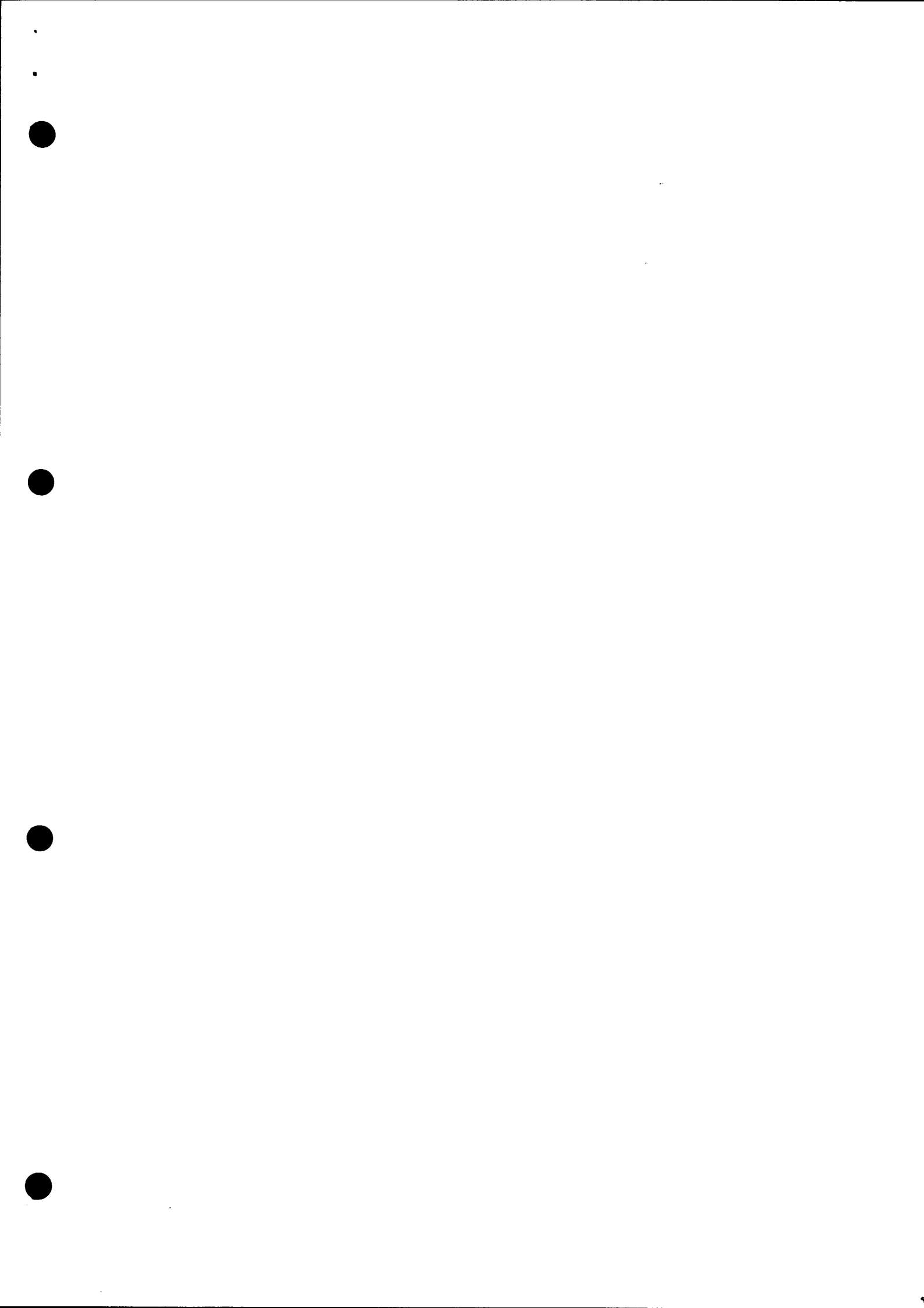
FPA 801 Exercise Loop.

This simple RC 8000 program is very useful to start a channel program on FPA 801. The program is started in address 1008. When FPA 801 has terminated the channel program with a STOP command, address 2008 is made = all zeroes, which causes a new start. The program may be used with any channel program by changing the channel program address.

ADDRESS (octal)	INSTRUCTION	M	DISPLACEMENT	
	F	W	R	I
4000	012345678	91011121314151617181920212223	1111	1111
4002	010111	000000	010000	000000
4004	000001001	100000	000001	000000
4006	101011000	100010	000000	000000
4010	001101001	000111	111111	111110
4012	001101001	000111	111111	111000
4014	100000000	000000	000000	010000
0010	111111111	111111	111111	111100
0012			1	
0014			1	
0016			1	
0020			1	
0022				
0024				
0026				
0030				
0032				

13007777, AL WO -1      408 = X + D = -1  
 27002000, RS WO 2008      store WO in 2008  
 01140010, AO. (8)      start channel program  
 53042000, SH WO (2008)      skip next if WO ≠ word (2008)  
 15107776, JL. -2      jump -2  
 15107770, JL. -8      jump -8  
 40000020, 1 < 23 + 2 < 3      parameter to data-out instruction. (start channel program on Receiver in device no 1)

77777774, Base Address = -4  
 00004000, Program start  
 00000400, Channel program addr = 4008  
 00001000, First addr of status = 1008  
 00002000, Interrupt Destination = 2008  
 00000000, Interrupt level = 0  
 Channel program addr =  
 First addr. of status =  
 Interrupt Destination =  
 Interrupt level =  
 Receiver Description  
 Transmitter Description



**RETURN LETTER**

Title: FPA 801 Exercise Loop

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Thank you

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