

HCFA Maccon II Connections

VME4SA-F1 Connector		HCFA RACK			Comments
Function Connector Pin	Instrument Unit	Terminal Strip	Phoenix 108	Phoenix 64	
E8	Iodinne Cell Motor +	Ts1 60		7A	rd
E5	Iodinne Cell Motor -	Ts1 61		8A	wh
D7	Iodinne Cell Shield	Ts1 62			
E3	Tacho Iodinne Cell +	Ts1 63		10A	gn
E2	Tacho Iodinne Cell -	Ts1 64		11A	wh
E4	Tacho Iodinne Cell Shield	Ts1 65			
A4	Encoder Iodinne Cell $U_{a0(zp)}$	Ts1 66	9		gr
A2	Encoder Iodinne Cell $U_{a0^*(zp)}$	Ts1 67	27		or
A8	Encoder Iodinne Cell $U_{a1(sin)}$	Ts1 68	45		wt
A6	Encoder Iodinne Cell $U_{a1^*(sin)}$	Ts1 69	63		vi
B7	Encoder Iodinne Cell $U_{a2(cos)}$	Ts1 70	81		rd
B5	Encoder Iodinne Cell $U_{a2^*(cos)}$	Ts1 71	99		bu
C6	Encoder Iodinne Cell Shield	Ts1 72			
C3	1k resistor to C2				
D3	1k resistor to C2				
B3	1k resistor to C2	Ts1 73	46		Init.
C5	Upper limit switch	Ts1 74	10		
D5	Lower limit switch	Ts1 75	28		

VME4SA-F2 Connector		HCFA RACK			Comments
Function Connector Pin	Instrument Unit	Terminal Strip	Phoenix 108	Phoenix 64	
E8	Fiber Heads Motor +	Ts1 76		7B	rd
E5	Fiber Heads Motor -	Ts1 77		8B	wh
D7	Fiber Heads Motor Shield	Ts1 78			
E3	Tacho Fiber Heads +	Ts1 79		10B	gn
E2	Tacho Fiber Heads -	Ts1 80		11B	wh
E4	Tacho Fiber Heads Shield	Ts1 81			
A4	Encoder Fiber Heads $U_{a0(zp)}$	Ts1 82	12		gr
A2	Encoder Fiber Heads $U_{a0^*(zp)}$	Ts1 83	30		or
A8	Encoder Fiber Heads $U_{a1(sin)}$	Ts1 84	48		wt
A6	Encoder Fiber Heads $U_{a1^*(sin)}$	Ts1 85	66		vi
B7	Encoder Fiber Heads $U_{a2(cos)}$	Ts1 86	84		rd
B5	Encoder Fiber Heads $U_{a2^*(cos)}$	Ts1 87	102		bu
C6	Encoder Fiber Heads Shield	Ts1 88			
C3	1k resistor to C2				
D3	1k resistor to C2				
B3	1k resistor to C2	Ts1 89	49		Init.
C5	Upper limit switch	Ts1 90	13		
D5	Lower limit switch	Ts1 91	31		
C7	Controller GND	Ts1 92	106		

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Function Connector Pin	VME4SA-F3 Connector	HCFA RACK			Comments
	Instrument Unit	Terminal Strip	Phoenix 108	Phoenix 64	
E8	Dust Cover Motor +	Ts1 93		7C	rd
E5	Dust Cover Motor -	Ts1 94		8C	wh
D7	Dust Cover. Shield	Ts1 95			
E3	Tacho Dust Cover +	Ts1 96		10C	gn
E2	Tacho Dust Cover. -	Ts1 97		11C	wh
E4	Tacho Dust Cover Shield	Ts1 98			
C3	1k resistor to C2				
D3	1k resistor to C2				
B3	1k resistor to C2	Ts1 99	52		Init.
C5	Upper limit switch	Ts1 100	16		
D5	Lower limit switch	Ts1 101	34		

Function Connector Pin	VME4SA-F4 Connector	HCFA RACK			Comments
	Instrument Unit	Terminal Strip	Phoenix 108	Phoenix 64	
E8	ND Wheel Motor +	Ts1 102		7D	rd
E5	ND Wheel Motor -	Ts1 103		8D	wh
D7	ND Wheel Shield	Ts1 104			
E3	Tacho ND Wheel Mirror +	Ts1 105		10D	gn
E2	Tacho ND Wheel Mirror -	Ts1 106		11D	wh
E4	Tacho ND Wheel Shield	Ts1 107			
A4	Encoder ND Wheel $U_{a0(zp)}$	Ts1 108	18		gr
A2	Encoder ND Wheel $U_{a0^*(zp)}$	Ts1 109	36		or
A8	Encoder ND Wheel $U_{a1(sin)}$	Ts1 110	54		wt
A6	Encoder ND Wheel $U_{a1^*(sin)}$	Ts1 111	72		vi
B7	Encoder ND Wheel $U_{a2(cos)}$	Ts1 112	90		rd
B5	Encoder ND Wheel $U_{a2^*(cos)}$	Ts1 113	108		bu
C6	Encoder ND Wheel Shield	Ts1 114			
C3	1k resistor to C2				Limit not used
D3	Connect to C5				Limit not used
C5	Connect to D3				Init. not used
D5	Connect to D6				