

Cable_Harness.txt

ACOM 2000A amplifier: Cable Harness Description

Path	Wire#	From:location/Connector	To:location/Connector	Signal name
I2 - P1	1	INTERFACE	JP2:1	PHASEDET. JP1:5 gnd/g1vm
I2 - P1	2	MTA100-15	:2	MTA100-12 JP1:7 g1vm1
I2 - P1	3		:3	:1 g2vmi
I2 - L3	4		:4	LV SUPPLY JP3:14 hcfi
I2 - L3	5		:5	MTA100-15 :12 hcri
I2 - N2	6		:6	CONHOLD (4) JP2:4 htrvmi
I2 - L3	7		:7	LV SUPPLY (15) JP3:13 gnd/hcf
I2 - P1	8		:8	PHASEDET. JP1:8 inpi
I2 - P1	9		:9	MTA100-12 :2 aavi
I2 - P1	10		:10	:6 PH
			:11	not used GND
I2 - P1	11		:12	:10 *INT/R
I2 - P1	12		:13	:9 +48V/INTR
			:14	n/c
I2 - P1	13		:15	:12 BIAS
I3 - L4	14	MTA100-18	JP3:1	LV SUPPLY JP4:8 -132V/INT
			:2	MTA100-8 n/c
I3 - L4	15		:3	:6 132VR/INT
I3 - H5	16		:4	HVSG & STM JP5:6 gnd/ipm
I3 - H5	17		:5	MTA100-8 :8 -ipmi
I3 - H5	18		:6	:7 hvmi
I3 - H5	19		:7	:4 -g2ci
I3 - H5	20		:8	:3 gnd/g2c
I3 - H5	21		:9	:5 EG20N
I3 - H5	22		:10	:2 +24VST/INT
I3 - H5	23		:11	:1 24VSTR/INT
I3 - L4	24		:12	LV SUPPLY JP4:4 +48V/INT
I3 - L4	25		:13	MTA100-12 :2 48VR/INT
I3 - L4	26		:14	:3 +24V/INT
I3 - L4	27		:15	:1 +10V/INT
I3 - L3	28		:16	MTA100-15 JP3:3 +12V/INT
I3 - L3	29		:17	:4 10-12VR
I3 - L3	30		:18	:6 -12V/INT
I4 - M1	31	MTA100-20	JP4:1	MAINS CONTROL JP1:1 linevmi
I4 - M1	32		:2	MTA100-8 :2 gnd/linevm
I4 - S5	33		:3	SIGNAL FILTER jp5:4 GND/SIGFIL
I4 - S5	34		:4	soldering points :1 alc
			:5	not used TXINH
I4 - L3	35		:6	LV SUPPLY JP3:7 GND
I4 - S5	36		:7	SIGNAL FILTER jp5:3 *KEYIN
I4 - S5	37		:8	soldering points :2 *KEYOUT
I4 - A	38		:9	AIR SENSOR JP1:8 *LOWAIR
I4 - A	39		:10	MTA100-8 :2 GND/LOWAIR
I4 - M1	40		:11	MAINS CONTROL JP1:4 +24V/FANON
I4 - L3	41		:12	LV SUPPLY JP3:10 +24V/HTRON
I4 - M1	42		:13	MAINS CONTROL JP1:6 +24V/PWRON
I4 - A	43		:14	AIR SENSOR JP1:1 +24VST/AIR
I4 - M1	44		:15	MAINS CONTROL JP1:8 +24VST/STST
I4 - M1	45		:16	:7 *STST
I4 - L3	46		:17	LV SUPPLY JP3:15 *HTRST
I4 - M1	47		:18	MAINS CONTROL JP1:5 *PWRON
I4 - L3	48		:19	LV SUPPLY JP3:11 *HTRON
I4 - M1	49		:20	MAINS CONTROL JP1:3 *FANON
		LV SUPPLY	JP3:1	not used +12V
		MTA100-15	:2	not used +12V
			:5	not used 1:4 10-12VR
L3 - H7	50		:8	HVSG & STM JP7:1 18VR/HVSG
L3 - H7	51		:9	MTA100-6 JP7:2 +18V/HVSG
L4 - S1	52		JP4:5	SIGNAL FILTER JP1:5 +18REXT/SIGFIL
L6 - N1	53*	MTA156-4	JP6:1	CONHOLD/TD JP1:1 HTR-R
L6 - N1	54*		:2	MTA156-4 :4 HTR-F

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L6 - N1	55*		:3		:2	~13.5V
L6 - N1	56*		:4		:3	~13.5V
H7 - N2	57!	HVSG & STM	JP7:6	MTA100-4	JP2:1	+340V
H7 - N2	58	MTA100-6	JP7:3		JP2:3	340VR
H4 - D1	59*	MTA156-2	JP4:1	MOTOR DRIVER	JP1:2	+24VST
H4 - D1	60*		JP4:2	MTA156-2	JP1:1	24VSTR
P2 - C5	61s	PHDET coax	JP2:1	CPU 2x3 coax	JP5:2,6	gnd/fqm
P2 - C5	61c	MTA100-2	:2		JP5:3	fqm
S3 - L4	62	SIGNAL FILTER	jp3:1	LVSUP	JP4:10	+18VEXT (CD)
S3 - C4	63		:2	CPU	JP4:2	PC-CPU (RXD)
S3 - C4	64		:3	MTA100-8	:3	CPU-PC (TXD)
S3 - C4	65		:4		:4	AUX-OUTPUT(DTR)
S3 - C4	66		:5		:5	GND
S3 - C4	67		:6		:6	AUX-INPUT (DSR)
S3 - C4	68		:7		:7	ON-OUTPUT (RTS)
S3 - C4	69		:8		:8	ON-INPUT (CTS)
S3 - L4	70		:9	LVSUP	JP4:11	-18VEXT (RI)
S4 - C3	71		jp4:1	CPU	JP3:1	GND
S4 - C3	72		:2	MTA100-8	:2	+5VLED
S4 - C3	73		:4		:4	+10VRCU
S4 - C3	74		:5		:5	*CPUON
S4 - C3	75		:6		:6	*CPURST
S4 - C3	76		:7		:7	RCU-CPU
S4 - C3	77		:8		:8	CPU-RCU
A - C4	78	AIR SENSOR	JP1:3	CPU	JP4:1	*FANHI
A - E	79		:4	EXT.FAN	JP1:1	GND/FAN
A - E	80		:5		:2	+12/24VFAN
A - P1	81		:6	PHASEDET.	JP1:3	+12VPHD
A - P1	82		:7	MTA100-12	:4	GND/PHD
I1 - TF	83	INTERFACE	JP1:1	FRONT T.SENSOR	JP1:3	+12V/temp
I1 - TF	84	MTA100-12	:2	MTA100-3	:1	gnd/tempf
I1 - TF	85		:3		:2	tempfi
I1 - TR	86		:4	REAR T.SENSOR	JP1:2	tempri
I1 - W1	87		:5	RF WATTMETER	JP1:3	gnd/fwd
I1 - W1	88		:6	MTA100-8	:1	fwdi
I1 - W1	89		:7		:2	rfl i
I1 - FI	90		:8	FR. PANEL INTERLOCK		COVER
I1 - W1	91		:9	RF WATTMETER	JP1:5	*ORC
I1 - W1	92		:10	MTA100-8	:6	GND/ORC
I1 - W1	93		:11		:8	*OUTT/R
I1 - W1	94		:12		:7	+48V/OUTTR
W1 - FI	95	RF WATTMETER	JP1:4	FR. PANEL INTERLOCK		GND/COVER
W2 - FP	96	MTA100-3	JP2:1	FR. PANEL LED	:1	GND/LED
W2 - FP	97		:2		:2	+LED

Legend:

- A - Air Sensor PCB (located in Tube Deck)
- Cx - CPU (Central Processor Unit) PCB, JPx (located in front panel cavity, behind Interface PCB)
- Dx - Motor Driver PCB, JPx (located in front panel cavity)
- E - External DC Fan PCB, JPx (located on rear panel below fan opening)
- FI - Front Panel Interlock
- FP - Front Panel LED
- Hx - HV&SG Supply PCB, JPx (located in front of HV transformer)
- Ix - Interface PCB, JPx (located in front panel cavity)
- Lx - Low Voltage Supply PCB, JPx (located in front of HV transformer, below HV PCB)
- Mx - Mains Control PCB, JPx (located on middle wall)
- Nx - Connector Holder PCB, JPx (located in Tube Deck)
- Px - Phase Detector PCB, JPx (located in Tube Deck)
- Sx - Signal Filter PCB, JPx (located on rear panel)
- TF - Temperature Sensor (located above Front Tube)
- TR - Temperature Sensor (located above Rear Tube)
- Wx - RF Wattmeter PCB (located in front panel cavity).

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