



FROM	TO	LENGTH	COLOR	GAUGE	COMMENT
P25-6	P11-7	90"	VIOLET	22	
P25-9	P11-2	90"	VIOLET	22	
P25-10	P26-2	120"	VIOLET	22	
P25-3	P26-3	120"	ORANGE	22	
P25-11	P26-4	120"	ORANGE	22	
P25-2	P27-9	104"	ORANGE	22	
P25-7	P27-10	104"	VIOLET	22	
P25-8	P21-3	94"	VIOLET	22	
P25-4	P21-2	94"	ORANGE	22	
P25-13	P21-5	94"	ORANGE	22	
P24-8	P11-1	90"	ORANGE	22	
P24-9	P11-8	90"	ORANGE	22	
P24-5	P11-4	90"	ORANGE	22	
P24-12	P11-10	90"	ORANGE	22	
P24-14	P11-9	90"	VIOLET	22	
P24-3	P26-1	120"	ORANGE	22	
P24-2	P27-8	104"	ORANGE	22	
P24-4	P21-1	94"	ORANGE	22	
P24-10	P21-4	94"	ORANGE	22	
P24-18	J43-25	35"	VIOLET	22	
J43-1	P21-18	66"	RED	24	}
J43-2	P21-17	66"	BLACK	24	} SHIELDED TWISTED PAIR
	P21-16	66"	SHIELD	24	}
J43-7	P21-12	66"	RED	24	}
J43-8	P21-11	66"	BLACK	24	} SHIELDED TWISTED PAIR
	P21-10	66"	SHIELD	24	}
J43-4	P27-5	76"	RED	24	}
J43-5	P27-6	76"	BLACK	24	} SHIELDED TWISTED PAIR
	P27-7	76"	SHIELD	24	}
J43-14	PWB1 P1-1	96"	RED	24	}
J43-15	PWB1 P1-2	96"	BLACK	24	} SHIELDED TWISTED PAIR
	PWB1 P1-3	96"	SHIELD	24	}
J43-10	PWB1 P1-4	96"	RED	24	}
J43-11	PWB1 P1-5	96"	BLACK	24	} SHIELDED TWISTED PAIR
	PWB1 P1-6	96"	SHIELD	24	}
P27-1	PWB1 P3-11	96"	RED	24	}
P27-2	PWB1 P3-12	96"	BLACK	24	} SHIELDED TWISTED PAIR
	PWB1 P3-9	96"	SHIELD	24	}

FROM	TO	LENGTH	COLOR	GAUGE	COMMENT
P25-18	P101-2	45"	BLACK	18	Putting two 18 gauge wires in one pin
P38-1	P101-2	82"	BLACK	18	probably requires soldering.
P38-2	P101-1	82"	WHITE	18	
P25-16	P101-1	45"	WHITE	18	
J101-1	J1-3	4"	WHITE	18	
J101-2	J1-2	4"	BLACK	18	
P1-9	P1-3	2"	WHITE	18	Jumper inside AC switch assembly
P1-1	P1-2	2"	BLACK	18	Jumper inside AC switch assembly
PWB1P2-4	ROS P30-1	4"	Orn	22	Shutter Solenoid
PWB1P2-3	ROS P30-2	4"	Vio	22	

CHECK FOR PRESENCE OF THESE WIRES

P11-1	P11-3	JUMPER FOR AC DISTRIBUTION, SWITCHED (HANDY FOR NEW POWER SUPPLY)
PWB1P1-7	RECTIFIER +	26VFWR
REMOVE FROM	INSERT IN	
P22-7	P22-5	
P22-9	P22-6	
ADD		
P26-3	P22-7	
P26-4	P22-9	

The 2716 PROM on the Control Board needs Pin 21 tied to Vcc.

INSTALLING THE LARGE PAPER DETECTION SWITCH

There is an instruction sheet furnished with the switch that tells how to do this. If lost, see below.

The flat ribbon cable from the switch assembly has two red wires next to two purple wires.

The inside red and purple are both common and get connected to ground.

Outside Purple is Large Cassette Detection

Outside Red is Trail Edge Sense.

Normally the ribbon cable goes to P34, mounted on the hinge plate. P34 is a 6-pin connector.

Outside Red	P34-4	
Inside Red	P34-6	
Inside Purple	P34-5	
Outside Purple	P34-3	
J34-3	J16-22	Large Cassette Detection
J34-4	J16-26	Trail Edge Sense
J34-5 & 6	J16-12	
P16-22	PWB1P2-7	
P16-26	PWB1P2-9	
P16-12	PWB1P2-8	

CONNECTORS

NUMBER	TYPE	PINS	COMMENTS
P24, 25, 21	MOLEX 09-50-3181	18 PIN	
P27, 11, PWB1P2	MOLEX 09-50-3101	10 PIN	
PWB1P1	MOLEX 09-50-3081	8 PIN	
P30, 38, 101	AMP MATE-N-LOK 1-480698-0	2 PIN	
P26	AMP MATE-N-LOK 1-480704-0	6 PIN	
J43	CANNON DBC-25S	25 PIN	

WIRE

SHIELDED TWISTED PAIR	_	BELDEN 9452 OR EQUIVALENT
22 GAUGE ORANGE AND VIOLET	_	ANYTHING
18 GAUGE WHITE AND BLACK	_	ANYTHING

For purposes of this document, connector numbering is mostly carried over from the Raven harnessing.

PWB1PX refers to a connector on the Raven control board.

P24 and 25 connect to the LVPS.

P21 and 27 connect to the Pixel Clock card mounted on the ROS.

P11 connects to the Polygon Driver board.

J43 is the Five-Wire Interface connector.

P26 connects to the Modulator Driver.

zROS P30 connects AC to the ROS power supply.

P101 connects the AC portion of the harness to the 3100 AC distribution.