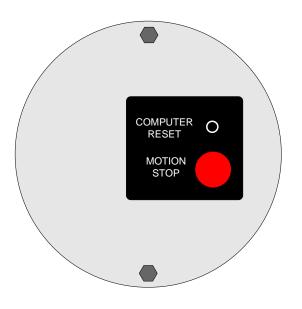
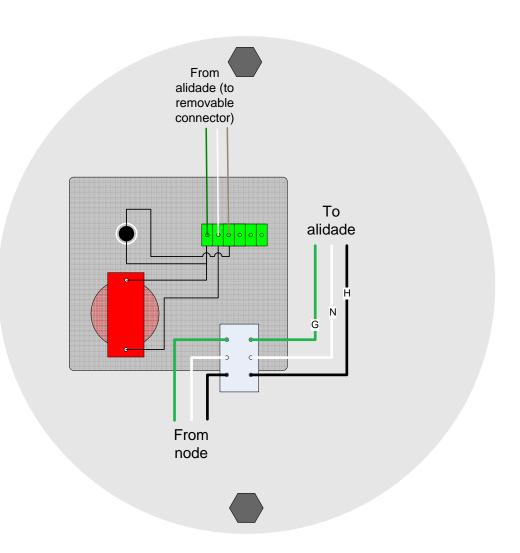


Pie-plate March 1, 2006





Alidade w	ire harnessi	ng Enclosure						
	ELMCOverv		-					
7-Mar-06								
AWE1	Input power	wires through pedes	tal				1	
	A	Description	В	Comment	Color	Size	Twist	Length
		120VAC	+	65 strand wire	white	#12		
ĕ	2	Return	+	Beldon 8527	black	#12		
Wires	3	Ground		Beldon 8520	green	#14		
		bare wire	corow torm	ninal block behind pie-		<i>n</i> 1-4		
Ends	A	39860-0103	Moley term	ninal on Alidade Relay	Poord			
ш	Ь В	39000-0103	Molex term	Illiai on Alluaue Relay	Duaru			
AWE2	Transforme							
AVVEZ				Comment	Color	Size	Twist	Length
	A	Description		Comment			IWIST	Length
		120VAC	-	These wires except	white	#14		
es	2	Return		Ground are all on the	black	#14		
Wires	3		<u> </u>	toroid, we provide				
>	4	100VAC		connector	red	#14		
		Return			red	#14		
End	I A	39860-0105	Molex con	nector on alidade relay	y card			
AWE3	Power to mo							
	Α	Description	В	Comment	Color	Size	Twist	Length
S	1	110VAC		Use standard power	black	#14		
Wires	2	Return		cord and chop off	white	#14		2 ft
	J	Ground		plua	green	#14		
Ends	А	39860-0104	Molex con	nector on alidade relay	v board			
ŭ	B	IEC-320		plug on drive box) 20a.u			
	+	120 020	Ingrit ungio	plag on anvo box				
AWE4	Power for co	ontrol hay						
AIILT	A	Description	В	Comment	Color	Size	Twist	Length
		120VAC	-	Use standard power	white	#18	IWISC	Lengin
es	1	Return			black	#18		
Wires	2	Ground	-	cord and chop off	-	#18		
			NA-I	plug	green	#10		
Ends	A	39860-0103		nector on alidade relay				
Ш	В	IEC-320	right angle	plug on control box (r	nay not exist i	n rt angle?)		
				1.454)				
AWE5		m power box	(also called		1	1		
	Α	Description	В	Comment	Color	Size	Twist	Length
S	1	120VAC			black	#14		
Wires	2	Return		wire	white	#14		
	0	Ground			green	#14		
sp	Α	39860-0103	Molex con	nector on alidade relay	y board			
ᇤ	В	ParlBlade U Gnd	connector	in rim power box				
	1							
AWE6	15-wire cab	le from alidade relay	board to driv	ve box				
	Α	Description	В	Comment		Size		Length
	1	az brakes +24V	1	1&9 are controlled wi	th the main dr	ives transfo	rmer power	
		Ground	2					
		24V aux	3			all #24		23"
		Ground	4					-
		drive enable +		5&13 are connected	through relay	contacts wh	ich are clos	ed
	6	Ground	6					
ns	7	Az cw limit		7&15 are connected			iay is latelle	,u
ğ	. 7	Az limit common	8		U U VIA INU SV	11101100		
id/s			9					
res/pi	0	ol broken 1941/	1 9					
Wires/pins	9	el brakes +24V		Doldon 0047				
Wires/pi	10	Ground	10	Belden 9947	maybe			
Wires/pi	10	Ground 24V aux	10 11	awaiting quote from o		n		
Wires/pi	10 11 12	Ground 24V aux Ground	10 11 12	awaiting quote from o		n		
Wires/pi	10 11 12 13	Ground 24V aux Ground drive enable -	10 11 12 13	awaiting quote from o		n		
Wires/pi	10 11 12 13	Ground 24V aux Ground drive enable - Ground	10 11 12 13 14	awaiting quote from o		m 		
	10 11 12 13 14 15	Ground 24V aux Ground drive enable -	10 11 12 13	awaiting quote from o		m		
Ends Wires/pi	10 11 12 13 14 15	Ground 24V aux Ground drive enable - Ground	10 11 12 13 14 15	awaiting quote from o		n		

WE7		25-wire cabl	e from alidade relay b						
		Α	Description	В	Comment				Length
			brakes +24V	1	1,3,5,11,14,16,18, 24	are power an	d control sig	gnals from th	ne
		2	Ground	2	control box				
	j	3	24V aux	3					
	ı	4	Ground	4					
	Ì		5V sensor +	5					
	ŀ		Ground	6					
	ŀ		float in		7,8,9,10,12,13,20,21,	22 22 25 are l	ogic and co	ncor cianole	
	ł						ogic and se	TISOT SIGNAIS)
	ŀ		T input1 -	8	- J	ontroi box			
			T input2 -	9					
			Az brake sense	10					
	S		Latch		main drives transform			Iding 24 log	ic high
	Wires/pins		Pot 1	12					
•	/S	13	Pot wiper	13	wrap pot is wired to re	elay board suc	h that resis	tance betwe	en 13
	J.	14	brakes +24V	14					
:	≤		Ground	15					
	ŀ		24V aux	16					
	ł		Ground	17					
	ł		5V sensor -		awaiting guata from a	ablastaga san			
					awaiting quote from o	.aมเยรเบับบ.con	II 	1	1
			Ground	19		-		-	
			T input1 +	20		1			
			T input2 +	21					
			electronics reset	22					
	ĺ	23	El brake sense	23					
	İ	24	Unlatch	24					
	ı		Pot 2	25					
	တ္ထ		D25S		dade relay board				
	Ends		D25P	Dsub to co					
	ш	D	DZJF	DSUD IO CO	TILLOLDOX				
MEO		motor nowo	r and broken for azimi	ıth					
WE8		•	r and brakes for azimu		Comment	Color	Si-c	Twict	Longth
WE8		Α	Description	uth B	Comment	Color	Size	Twist	Length
WE8		A 1	Description W1		Comment	Color	Size	Twist	Length
WE8		A 1 2	Description W1 W2	В	Comment		Size	Twist	Length
WE8		1 2 14	W1 W2 W3		Comment	Color purple		Twist	Length
WE8		A 1 2 14 15	W1 W2 W3 W4	В	Comment			Twist	Length
WE8		A 1 2 14 15	W1 W2 W3	В	Comment			Twist	Length
WE8		1 2 14 15 3	W1 W2 W3 W4	В	Comment			Twist	Length
WE8		1 2 14 15 3	Description W1 W2 W3 W4 N/C N/C	В	Comment			Twist	Length
WE8		1 2 14 15 3 16	Description W1 W2 W3 W4 N/C N/C V1	W	Comment	purple	#14	Twist	Length
WE8		1 2 14 15 3 16 4	Description W1 W2 W3 W4 N/C N/C V1 V2	В	Comment			Twist	Length
WE8		A 1 2 14 15 3 16 4 5 17	Description W1 W2 W3 W4 N/C N/C V1 V2 V3	W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4	W	Comment	purple	#14	Twist	Length
		1 2 14 15 3 16 4 5 17 18 6	Description W1 W2 W3 W4 N/C V1 V2 V3 V4 N/C N/C	W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C	W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C N/C N/C U1 U1 U1 U1 U1 U1 U1 U	W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8	Description W1 W2 W3 W4 M/C W1 W2 W3 W4 M/C W1 W2 W3 W4 M/C M/C M/C M/C M/C M/C U1 U1 U1 U1 U1 W1 W1 W1	B W	Comment	purple	#14	Twist	Length
	Wires/pins	A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20	Description W1 W2 W3 W4 M/C M/C V1 V2 V3 V4 M/C M/C M/C U1 U1 U1 U1 U1 U1 U1 U	W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U1 U1 U1 U1 U1 U1 U	B W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21	Description W1 W2 W3 W4 M/C M/C V1 V2 V3 V4 M/C M/C M/C U1 U1 U1 U1 U1 U1 U1 U	B W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U1 U1 U1 U1 U1 N/C N/C	B W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U1 U1 U1 U1 U1 U1 N/C B W	Comment	purple	#14	Twist	Length	
		A 1 2 14 15 3 16 4 5 17 18 6 20 21 9 22 10	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U1 U1 U1 U1 U1 U1 N/C N/C G1 M/C G1	W V	Comment	brown blue	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22 10 11	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U1 U1 U1 U1 U1 N/C N/C N/C C G1 G2 G2 C C C C C C C C C	B W	Comment	purple	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22 10 11	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U1 U1 U1 U1 U1 N/C N/C N/C G1 G2 G3	W V	Comment	brown blue	#14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22 10 11 23	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U1 U1 U1 U1 U1 N/C N/C G1 G2 G3 G4 G4 G5 G5 G4 G5 G5 G5	W V	Comment	brown blue green	#14 #14 #14	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22 10 11 23 24 12	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U2 U3 U4 U5 U1 U1 U1 U1 U1 U1 U1 U1 U1 U2 U3 U4 U5 U2 U3 U2 U3 U3 U4 U5	W V	Comment	brown blue green blue	#14 #14 #14 #16	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22 10 11 23 24 12	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U2 U3 U4 U5 U2 U3 U2 U3 U4 U2 U3 U3 U4 U3 U4 U5	W V	Comment	brown blue green blue blue	#14 #14 #14 #16 #16	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22 10 11 23 24 12	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U2 U3 U4 U5 U1 U1 U1 U1 U1 U1 U1 U1 U1 U2 U3 U4 U5 U2 U3 U2 U3 U3 U4 U5	W V	Comment	brown blue green blue	#14 #14 #14 #16	Twist	Length
	Wires/pins	A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22 10 11 23 24 12 13 25	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U2 U3 U4 U5 U2 U3 U2 U3 U4 U2 U3 U3 U4 U3 U4 U5	W V		brown blue green blue blue	#14 #14 #14 #16 #16	Twist	Length
		A 1 2 14 15 3 16 4 5 17 18 6 19 7 8 20 21 9 22 10 11 23 24 12 13 25 A	Description W1 W2 W3 W4 N/C N/C V1 V2 V3 V4 N/C N/C U1 U2 U3 U4 U5 U6 U7 U1 U1 U1 U1 U1 U1 U1 U1 U1 U2 U3 U4 U5 U2 U3 U4 U5 U6	W V Ground	Comment SS on board	brown blue green blue blue	#14 #14 #14 #16 #16	Twist	Length

WE9	encoders ar	nd hall's for azimuth						
	Α	Description	В	Comment	Color	Size	Twist	Length
		N/C		GND on board	N/C			- 5
		U			brown			
	3				gray			
		W			white			
		GND			black		V	
		X			purple		Z	
Wires/pins		В			green		Y	
d/s		A			blue		X	
<u>ĕ</u> .		thermal sensor		GPIN5	orange		W	
≶		GND thermal sensor		GND	orang/white		W	
		Vcc (+5V)		GND	red		V	
		N/C		GND on board	N/C		V	
				GND on board			7	
	13				purple/blk		Z	
	14				green/blk		Υ	
	15				blue/blk		X	
Ends		D15P	filtered D1	5S on board				
ш	В	M						
NE10		r and brakes for eleva			_		Sort Pin #	
	Α	Description	В	Comment	Color	Size	Twist	Length
		W1						
	2	W2	W		numala	#14		
	14	W3	T V V		purple	#14		
	15	W4						
	3	N/C						
	16	N/C						
		V1						
		V2	1					
		V3	V		brown	#14		
		V4						
		N/C						
us		N/C						
id/s		U1						
Wires/pins		U1	+					
≶			U		blue	#14		
		U1 U1	-					
		N/C						
		N/C						
		G1	-					
		G2	Ground		green	#14		
		G3			3.22			
		G4						
		BP			blue	#16		
		BM			blue	#16		
	25	SHIELD			shield	shield		
				DOCC on board				
v		D25P	plugs into	D25S on board				
Ends	А	D25P 39-01-2063-P	Molex	D255 on board				

	1 -		I —	_	1	1	I— -	1-
	Α	Description	В	Comment	Color	Size	Twist	Length
		N/C		GND on board	N/C			
		U			brown			
	3	V			gray			
		W			white			
		GND			black		V	
		X			purple		Z	
ဋ								
٠ <u>ق</u>		В			green		Y	
es		A			blue		X	
Wires/pins		thermal sensor		GPIN5	orange		W	
_	10	GND thermal sensor		GND	orang/white		W	
	11	Vcc (+5V)			red		V	
		N/C		GND on board	N/C			
	13	/X			purple/blk		Z	
		/B			green/blk		Y	
		/A			blue/blk		X	
<i>(</i> 0					Diue/Dik		^	
Ends		D15P		5S on board				
ய்	В	D15P	D 15p on r	notor				
WE12	encoder for	azimuth		(P/N: R176H-0360	0Q-5L10-AT40S	P-24MN)		
	Α	Description	В	Comment	Color	Size	Twist	Length
		A			yellow			
		В			green			
	2	IND			blue			
US		N/C						
٠ <u>ق</u>					shield			
Wires/pins		+V			red			
Ξ		/A			brown			
>	7	/B			orange			
	8	/IND			white			
		COMMON			black			
9		D9P	Davile are a	antrol box				
		11,912	IUSUD OD C	Drift()Lt)()X				
ä			Dsub on co					
Ends				of encoder				
	В			of encoder	DEI 10D00SD04	ΕΛ		
	encoder for	 elevation	cable part	of encoder (P/N: 9220S03600			Twiat	Longth
	encoder for A	elevation Description		of encoder	Color	EA) Size	Twist	Length
	encoder for A	elevation Description A	cable part	of encoder (P/N: 9220S03600	Color yellow		Twist	Length
	encoder for A 1 2	elevation Description A B	cable part	of encoder (P/N: 9220S03600	Color yellow green		Twist	Length
WE13	encoder for A 1 2 3	elevation Description A B IND	cable part	of encoder (P/N: 9220S03600	Color yellow		Twist	Length
WE13	encoder for A 1 2 3	elevation Description A B IND	cable part	of encoder (P/N: 9220S03600	Color yellow green		Twist	Length
WE13	encoder for A 1 2 3 4	elevation Description A B IND N/C	cable part	of encoder (P/N: 9220S03600	yellow green blue shield		Twist	Length
wE13	encoder for A 1 2 3 4 5	elevation Description A B IND N/C +5V	cable part	of encoder (P/N: 9220S03600	Color yellow green blue shield red		Twist	Length
WE13	encoder for A 1 2 3 4 5 6	elevation Description A B IND N/C +5V /A	cable part	of encoder (P/N: 9220S03600	yellow green blue shield red brown		Twist	Length
wE13	encoder for A 1 2 3 3 4 5 5 6 7	elevation Description A B IND N/C +5V /A	cable part	of encoder (P/N: 9220S03600	yellow green blue shield red brown orange		Twist	Length
WE13 suid/se	encoder for A 1 2 3 4 5 6 7 8	elevation Description A B IND N/C +5V /A /B /IND	cable part	of encoder (P/N: 9220S03600	Color yellow green blue shield red brown orange white		Twist	Length
Wires/pins	encoder for A 1 2 3 4 5 6 7 8 9	elevation Description A B IND N/C +5V /A /B /IND COMMON	B	of encoder	yellow green blue shield red brown orange		Twist	Length
Wires/pins	encoder for A 1 2 3 4 5 6 7 8 9	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P	B Dsub on co	of encoder (P/N: 9220S03600 Comment	Color yellow green blue shield red brown orange white		Twist	Length
WE13 suid/se	encoder for A 1 2 3 4 5 6 7 8 9	elevation Description A B IND N/C +5V /A /B /IND COMMON	B Dsub on co	of encoder	Color yellow green blue shield red brown orange white		Twist	Length
AWE13 Ends Wires/pins	B encoder for A 1 2 3 4 5 6 7 8 9 A B	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P	B Dsub on co	of encoder (P/N: 9220S03600 Comment	Color yellow green blue shield red brown orange white		Twist	Length
WE13 Wires/pins	encoder for A 1 2 3 4 5 6 7 8 9 A B battery for C	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box	B Dsub on cable part	of encoder (P/N: 9220S03600 Comment	Color yellow green blue shield red brown orange white black		Twist	Length
WE13 Wires/pins	encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description	B Dsub on co	of encoder (P/N: 9220S03600 Comment	Color yellow green blue shield red brown orange white		Twist	Length
WE13 Wires/pins	encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box	B Dsub on cable part	of encoder (P/N: 9220S03600 Comment	Color yellow green blue shield red brown orange white black	Size		Length
WE13 Wires/pins	encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V	B Dsub on cable part	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red	Size		Length
wE14	B encoder for A	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V	B Dsub on ccable part	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Comment Only 2 wires	Color yellow green blue shield red brown orange white black	Size		Length
wE14	B encoder for A	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V N/C	B Dsub on c cable part B 1	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red red	Size		Length
WE13 Suid/sel/M	B encoder for A	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V N/C GND	B Dsub on ccable part B 1 1	of encoder (P/N: 9220S03600 Comment Comment Comment Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red red black	Size		Length
wE14	B encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c 1 2 3 4 5 5	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V N/C GND GND	Dsub on c cable part B 1 2 2	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red red black black	Size		Length
WE13 Suid/sel/M	B encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c 1 2 3 4 5 6 6 6 7 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 8 9 8 9 6 7 8 8 9 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V N/C GND GND GND +12V	B Dsub on ccable part B 1 1	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red red black	Size		Length
WE13 Wires/pins	B encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c 1 2 3 4 5 6 6 6 7 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 9 6 7 8 8 9 8 9 6 7 8 8 9 8 8 9 8 8 8 8 8 8 8 8 8 8 8 8 8	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V N/C GND GND	Dsub on c cable part B 1 2 2	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red red black black	Size		Length
wE14	B encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c A 1 2 3 4 5 6 7	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V N/C GND GND GND +12V N/C	Dsub on c cable part B 1 2 2	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red red black black	Size		Length
AWE13 Suid/sel/M	B encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c A 1 2 3 4 5 6 7 8	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V N/C GND GND GND +12V N/C N/C N/C	Dsub on c cable part B B 1 1	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red red black black red	Size		Length
wE14	B encoder for A 1 2 3 4 5 6 7 8 9 A B battery for c A 1 2 3 4 5 6 7 8 9 9	elevation Description A B IND N/C +5V /A /B /IND COMMON D9P control box Description +12V +12V N/C GND GND GND +12V N/C	Dsub on c cable part B 1 2 2	of encoder (P/N: 9220S03600 Comment control box of encoder Comment Only 2 wires	Color yellow green blue shield red brown orange white black Color red red black black	Size		Length

AWE15	Signal from	relay board to pie-pla	te	LappUSA (Olflex) 90	00P Cable, 3 c	onductor #2	4. 811442
		Description	В	Comment	Color	Size	Twist
"		common	1		green	#24	
Wires		M-stop	2		white	#24	
×		reset	3		brown	#24	
<u>0</u>		Molex 43645-0300/43		on alidade relay boa			3)
Ends		bare	000 000	terminal behind pie		000/001100	
ш		Daie		terrimai berima pie j	Jace		
AWE16	signal from	oil float					
AVEIO		Description	В	Comment	Color	Size	Twist
O	1	Description	В	Comment	COIOI	#24	IWISC
Wire	2					#24	
		Moley 42645 0200/4	2020 000	on olidada ralav bas	r / lomana 220	0254/22772	2)
Ends		Molex 43645-0200/43	3030-009	on alidade relay boa	in (Jameco 338	331/33//30	5)
Ш	В	Crimps?					
A \A/E47	Cianal frame	tomporatura assassa	, rolov b	-d			
AWE17		temperature sensor to			Color	0:	Turint
		Description	B, C	Comment	Color Black	Size	Twist
		GND	B1			#24	
S		T	B2		Yellow	#24	
Wires		+5V	B3		Red	#24	
>		GND	C1		Black	#24	
	5		C2		Yellow	#24	
		+5V	C3		Red	#24	
Ends		Molex 43025-0600/43	3030-009	to alidade relay boar			
Ш		solder to LM35		Lm-35 Device in TO			
	С	solder to LM35		Lm-35 Device in TO	-220		
AWE18		az wrap potentiomete	1	T -	1	1	
		Description	В	Comment	Color	Size	Twist
es	1				red	#24	
Wires	2				yellow		
	3				black		
Ends		bare wire	posts on po				
Ē	В	Molex 43645-0300/4	3030-009	on alidade relay boa	rd		
AWE19		elevation level sensor				_	
		•		Comment	Color	Size	Twist
		red	+5V			#24	
	2						
res	3						
Wires	4						
		green	signal				
	6	blue	ground				
Ends	А	Molex 43025-0600/4	3030-009	on relay board			
	В	solder/leads in elevat	tion can	-			
				l .		-	1

		e harnessir		ler box							
Refere	ence l	ELMCOvervi	ew.vsd								
7-Ma	ar-06										
AWC ²	1	Power from	relay board	to power r	ngmt boa	ird					
		Α	Description	1		В	Color	Size	Twist	Length	
	S	1	100 VAC "L	"			White	18		15"	
	Wires		Return "N"				Black	18		15"	
		3	Ground				Green	18		15"	
	8	Α	IEC-320 0.2	25 auick di	sconnect	F insulated					
	Ends		spade fork								
			opado ioni								
AWC	2	25-wire cabl	e from alida	de relav b	nard to co	ontrol box			I		
, 0.		A	Description		oura to o	B,C,D	Comment	Color	Size	Twist	Length
			brakes +24			C1	Commont	brown	0.20	Z	7.5"
	-		Ground	v		C2	power mgmt		-	Z	7.5"
			24V aux			D1	board	purple	1	Y	7.5"
	ł		Ground			D2	Joanu	black	1	Y	7.5"
	-		+5V			B19		red	-	X	7.5"
	-		Ground			B15	5	black	-	X	7.5"
			float in			B15	00		-	^	7.5"
	ŀ					B6	ار ا	green	-		
	-		T 2 input				alle S	blue	1		7.5"
	ŀ		T 4 input			B10	rt.	yellow			7.5"
	ļ		Az brake se	ense		B13	Ö	white	√G		7.5"
	ટા		Latch	`		B7	microcontroller board	orange	all wires #22 AWG	147	7.5"
	/pir		Pot 1 (GND)		B18	Ξ̈	black	. 52	W	7.5"
	Wires/pins		Pot wiper			B16		green	# S		7.5"
	١		brakes +24	V		C1		brown	. <u>.</u>	Z	7.5"
			Ground			C2	power mgmt		<u> </u>	Z	7.5"
			24V aux			D1	board	purple	ਲ	Υ	7.5"
			Ground			D2		black		Υ	7.5"
			+5V			B20	5	red		Χ	7.5"
			Ground			B3	80	black		Χ	7.5"
			T 1 input			B11	10	green			7.5"
			T 3 input			B12	8	blue			7.5"
			electronics		off)	B5	ıt.	yellow			7.5"
			El brake se			B8	ည်	white			7.5"
			Unlatch (dri	ves on/off)	B14	microcontroller board	grey			7.5"
			Pot 2 (+5V)			B17		red		W	7.5"
		Α	56-126-004			filtered D2	5 Socket on to	op of control b	connects t	o AWE7B	
	Sp	В	WM2527-N	D/WM625	10-ND	2x10 100m	nil ucntrlr boar	d d	(22-55-220	01/16-02-01	02)
	Ends	С	770849-2/7	70522-1		power mgr	nt board	relay/brakes		JameCo 2	36321
			770849-2/7			power mgr		HV aux		JameCo 2	36321
A:	1 · N//				0: T2			: GND 17: P5	V 40, +F		
	1: N/C 2: N/C		5: RST 6: FLT	7: LTCH 8: EBS	9: 12 10: T4	11: T1 12: T3		: WPR 18: GI			
1	Z. 14/C	4. 14/0	V. P.L.I	U. L	10. 14	12. 13	14. OL 10 10	. W. K. 10. GI	20. +31	_	
AWC:	3	encoder for	azimuth			·	(P/N: R176H	-03600Q-5L1	0-AT40SP-	24MN)	,
			Description	1		В	Comment	Color	Size	Twist	Length
			A	•		4		yellow	5.20	Z	5.75
		2	В			6		green	ניו	Y	5.75
			IND (Z)			8		blue	all wires #24 AWG	X	5.75
	ns		N/C			0		DIGG	¥ .	^	3.73
	id/s		+5V			10		red	#24	W	5.75
	Wires/pins		/A			3		brown	S	Z	5.75
	Ĭ		/A /B						vire	Y	
	-					5		orange	<u>></u>		5.75
	ļ		/IND (Z)			7		white	a	X	5.75
	<i>(</i> 0		COMMON			9		black		W	5.75
	Ends		56-106-010		40.1/=		ıb 9 socket oı			o AWE12A	00)
	Ш	В	WM2522-N	D/WM625	10-ND	2x5 0.100"	on ucntrlr ca	ra	(22-55-210	01/16-02-01	02)
			1: GND	3: /Z (II	ND 5: /B	7: /A	9: NC	7			
			2: +5V		ND 6: B	8: A	10: NC	1	in-line w/ b	attery	
				_ (200 (0.0)	1	_			

AWC4	encoder for	elevation		(P/N: 9220S0	3600D5L10E	99SP04EA)	
	Α	Description	В	Comment	Color	Size	Twist	Length
		A	4		yellow		Z	5.75
		В	6		green	ပ	Υ	5.75
		IND (Z)	8		blue	all wires #24 AWG	X	5.75
Wires/pins		N/C				4		
d/s		+5V	10		red	#2	W	5.75
<u>i</u> j.		/A	3		brown	es	Z	5.75
>		/B	5		orange	wir	<u>-</u> Y	5.75
		/IND (Z)	7		white	<u></u>	X	5.75
	9	COMMON	9		black		W	5.75
8		56-106-010				connects to	AWF13A	
Ends		WM2522-ND/WM62510-ND	2x5 0.100"	on ucntrlr car	d		1/16-02-010)2)
<u></u>	7			ı	1	(22 00 210	1,10 02 011)
		1: GND 3: /Z (IND 5: /B	7: /A	9: NC				
		2: +5V 4: Z (IND 6: B	8: A	10: NC				
AWC5	battery		•		•			
		Description	В	Comment	Color	Size	Twist	Length
		+12V	1		red	18		4
		+12V	1		red	same wire		
	3	N/C						
ii.		GND	2		black	18		4
d/s		GND	2		black	same wire		
Wires/pins	6	+12V	1		red	same wire		
>		N/C						
		N/C						
		GND	2		black	same wire		
ds	А	56-101-010	filtered Dsu	b 9 pin on co	ntrol box	connects to	AWE14A	
Ends		770849-2/770522-1		'				
AWC6							I.	
standard C	AT5 cable	Rj-45						12
		,						
AWC7	9V to media	converter from power mgmt bo	pard			1		
		Description	В	Comment	Color	Size	Twist	Length
Wires		+9V	1		black/white	20		13
vvires	2	Common	2		black	20		13
Ends	А	round						
ᇤ	В	770849-2/770522-1	This conne	ctor numberin	g is opposite	to 0.100" co	nnectors	
					Ĭ			
AWC8	24 V from po	ower supply to power mgmt boa	ard		•	,	l.	
	A	Description	В	Comment	Color	Size	Twist	Length
\\ \(\lambda \); \(\tau - \)	1	+24V	1		red	18		8.25
Wires	2	Common	2		black	18		8.25
9		spade fork #6x18						
Ends		770849-2/770522-1						
			1	l	I.	1	(L

AWC9	5V to SBC							
	Α	Description	В	Comment	Color	Size	Twist	Length
Wires	1	+5V	1		red	18		7.5
	2	Common	2		black	18		7.5
Ends	А	15-24-4048						
山	В	770849-2/770522-1						
AWC10		n Pwer Mgment to uCntrlr board					,	
	Α	Description	В	Comment	Color	Size	Twist	Length
Wires	1	+12V	1		red	18		4.5
		Common	2		black	18		4.5
Ends		770849-2/770522-1						
		770849-2/770522-1		0.156" pitch				
AWC11	,,	goes between the uCntrlr board						
	Α	Description	В	Comment	Color	Size	Twist	Length
	1	power	1		green	24		9
		ground	2		black	24		9
Wires		reset	3		red	24	Z	9
		N/C	4	pin 1 on inbo	ard side			
		N/C	5					
Ends		WM2803-ND/WM62510-ND		connector on		,	5/16-02-01	,
		WM2803-ND/WM62510-ND		connector on		(50-57-900	5/16-02-01	02)
AWC12		on/off (between uCntrlr board ar					,	
	Α	Description	В	Comment	Color	Size	Twist	Length
	1	electronics on/off	1		green	24		6.5
Wires		ground	2		black	24		6.5
		battery voltage /3	3		yellow	24	Z	6.5
Ends		1x3 0.100" unpolarized						
		1x3 0.100" unpolarized						
		rossover cable between SBC (s	econd LAN) and uCntrlr b	poard	_	,	_
crossover C	AT5 cable							6"

7-Mar	r-06								
WD1		3-wire p	oow	er cable from cover to	rectifier				
		Α		Description	В	Color	Size	Twist	Length
	es			100VAC (L)		white	18AWG		13.75"
	Wires			Return (N) Ground		black	184		13.75" 6.5"
	8			0.25 quick disconnect	solder termin	green			0.5
	Ends			bare wire		als on drive board	(soldere	ed butt splice	heat shrink)
							`		,
WD2			cat	ole from drive-box top			0.		
		Α	4	Description az brakes +24V	B,C,D C	Color Brown	Size	Twist	Length
				Ground	C	Black			4.625 4.625
				24V aux	C	Red			4.625
				Ground	D	Black			9
			5	drive enable +	B1	Orange	Ō		12
	S			Ground	D	Black	Ş		9
	Wires/pins			Az cw limit	B3	Yellow	22/		12
	res			Az limit common	B4	Green	# S		12
	≶			el brakes +24V Ground	C	Blue Black	all wires #22AWG		4.625 4.625
				24V aux	C	Purple	<u>=</u>		4.625
				Ground	D	Black			9
				drive enable -	B2	Grey			12
				Ground	D	Black			9
				Az ccw limit	B5	White		,	12
	ć			56-111-010		15P on driver box top			
	Ends			WM2803-ND/WM625 bare wire/solder		onnector on daughte al on driver board	er card	(50-57-9	005/16-02-0102)
	ш			gnd lug	round #8	ai vii uiivei buaid			
			J	g.10 10g	. σαι ια πυ				
WD3		tempera	atur	e sensor cable from d					
		Α		Description	В	Color	Size	Twist	Length
				GND	3	black			5
				T +5	2	yellow red			5 5
			A	TU	50-57-9003	16u	(on dau	ahter)	υ
			В		22-01-2037/0	08-52-123	(on drive		
			٦			· · ·= ·=*	(=	- /	
WD4			atur	e sensor cable from h					
		Α		Description	В	Color	Size	Twist	Length
				GND T		black		24 24	19
				1 +5		yellow red		24	19 19
			A	. 9	50-57-9003		(on dau		10
			В		soldered/hea	t shrink	LM35	J ,	
WD5			atur	e sensor cable from a	-				
		Α	4	Description	В	Color	Size	Twist	Length
				GND T		black yellow		24 24	16.75 16.75
				+5		red		24	16.75
			A	-	50-57-9003		(on dau		. 5 0
			В		soldered/hea	t shrink	LM35	- /	
WD6			to o	capacitor 1	D.0	0-1-	0:		Land
		Α	1	Description	B,C B,C 1	Color Red	Size	Twist 18	Length 7"
			2		B,C 1	Black		18	7 7"
			A		,			-	
			В						
			С						
WD7			or 1	to capacitor 2		0.1.	0:	-	Land
		Α	4	Description	В	Color	Size	Twist	Length
			1 2	+		1 Red 2 Black		18 18	8.5" 8.5"
				#8 ring terminal + so	lder			-	
				#8 ring terminal + so					
WD8			(6)	to drive board					
		A		Description	В	Color	Size	Twist	Length
		1				Red		18	9.5"
		2	Α			Black		18	7.5"
			В						
			٦						
WD9		resistor	to I	ectifier					
		Α		Description	В	Color	Size	Twist	Length
		• • •							-
			1			1 Red 2 Black	#22 #22		4" 4"