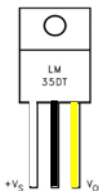
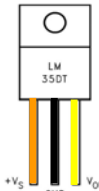



Alidade wire harnessing: drive box							
Reference ELMCOOverview.vsd							
5-Apr-06							
AWD1 3-wire power cable from cover to rectifier							
Wires	A	Description	B	Color	Size	Twist	Length
	1	100VAC (L)		white	18AWG		13.75"
	2	Return (N)		black			13.75"
	3	Ground		green			6.5"
Ends	A	0.25 quick disconnect	solder terminals on IEC-320				
	B	bare wire	to rectifier/gnd lug		(soldered butt splice heat shrink)		
AWD2 15-wire cable from drive-box top to daughter board/drive board							
Wires/pins	A	Description	B,C,D	Color	Size	Twist	Length
	1	az brakes +24V	C7	Brown	all wires #22AWG		4.625
	2	Ground	C6	Black			4.625
	3	24V aux	C9	Red			4.625
	4	Ground	C8	Black			4.625
	5	drive enable +	B1	Orange			12
	6	Ground	D	Black			9
	7	Az cw limit	B3	Yellow			12
	8	Az limit common	B4	Green			12
	9	el brakes +24V	C5	Blue			4.625
	10	Ground	C6	Black			4.625
	11	24V aux	C9	Purple			4.625
	12	Ground	C8	Black			4.625
	13	drive enable -	B2	Grey			12
	14	Ground	D	Black			9
	15	Az ccw limit	B5	White			12
Ends	A	56-111-010	filtered Dsub15P on driver box top	connects to AWE6B			
	B	50-57-9005/16-02-01	1x5 100mil connector on daughter card				
	C	bare wire/solder	screw terminal on driver board (J6/8)				
	D	gnd lug	round #8				
AWD3 temperature sensor cable from drive board to daughter card							
	A	Description	B	Color	Size	Twist	Length
	1	+5V	3	white	24		5
	2	GND	1	black	24		5
	3	Vout	2	yellow	24		5
	A	50-57-9003	1x3 100mil		(on driver, J7)		
	B	50-57-9003	1x3 100mil		(on daughter)		
AWD4 temperature sensor cable from heatsink to daughter card							
	A	Description	B	Color	Size	Twist	Length
	1	+5V	3	orange	24		19
	2	GND	1	black	24		19
	3	Vout	2	yellow	24		19
	A	device	soldered/heat shrink		LM35		
	B	50-57-9003	1x3 100mil		(on daughter)		
AWD5 temperature sensor cable from airflow to daughter card							
	A	Description	B	Color	Size	Twist	Length
	1	+5V	3	red	24		16.75
	2	GND	1	black	24		16.75
	3	Vout	2	yellow	24		16.75
	A	device	soldered/heat shrink		LM35		
	B	50-57-9003	1x3 100mil		(on daughter)		

AWD6 rectifier to capacitor 1								
	A	Description	B,C	Color	Size	Twist	Length	
	1		B,C 1	Red	18		7"	
	2		B,C 2	Black	18		7"	
	A							
	B							
	C							
AWD7 capacitor 1 to capacitor 2								
	A	Description	B	Color	Size	Twist	Length	
	1 +		1	Red	18		8.5"	
	2 -		2	Black	18		8.5"	
	A	#8 ring terminal + solder						
	B	#8 ring terminal + solder						
AWD8 resistor (6) to drive board								
	A	Description	B	Color	Size	Twist	Length	
	1			Black	18		9.5"	
	2			Black	18		7.5"	
	A							
	B							
AWD9 resistor to rectifier								
	A	Description	B	Color	Size	Twist	Length	
	1		1	Black	#22		4"	
	2		2	Black	#22		4"	