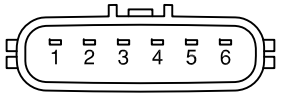
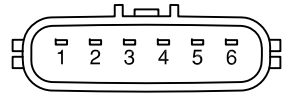
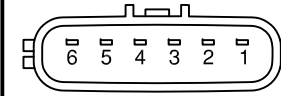
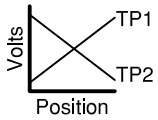
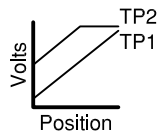
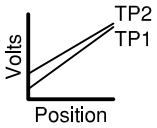


Part No.s	MN195706 Mitsubishi p/n Supplier Part No.: 11G16 5012 860 11G15	MN130069 6J12 00213 9H27	30622273 051118 11G18 0760 01148 JAPAN 11G16
Applications	Mitsubishi Colt CZ3	Mitsubishi Pajero V77 3.5L	Volvo XC90 4.4L MY2005
Comments	Electronic Hybrid	Electronic Hybrid	
TP2 Linear Limit	None	55%	
Pin Function	 Motor- 2 Motor+ 1 Throttle Position1 6 Throttle Position2 4 0V (TP1/TP2) 3 5V (TP1/TP2) 5	 5 6 1 3 4 2	 2 1 6 4 3 5
Calibration	Proportional Gain 120 Integral Gain 30 Derivative Gain 175 Period 1 Dead Band 0.3 Feed Forward 15 Neg. Integral Clamp -20 Frequency 8000 Motor Volts 14 	Proportional Gain 120 Integral Gain 70 Derivative Gain 175 Period 1 Dead Band 0.3 Feed Forward 15 Neg. Integral Clamp -20 Frequency 8000 Motor Volts 14 	Proportional Gain 130 Integral Gain 80 Derivative Gain 180 Period 1 Dead Band 0.3 Feed Forward 5 Neg. Integral Clamp -20 Frequency 8000 Motor Volts 14 
Notes		TP2 must use manual calibration	

Note, refer to:-
 "DAD0001 Electronic Throttle Setup for MoTeC 'hundred series' ECUs" or
 "DAD0002 Electronic Throttle Setup for MoTeC 'M1 series' ECUs"
 for additional information.



Title Denso Electronic Throttle Motors				Sheet No	Drawing No
Date 14.5.2009	Drawn KMH	App	Rev D	1 of 1	DAD0018