3 Axis Accelerometer

+/- 3.5 G range

5V maximum input voltage
32 cells are calculated, for 16 or 8 cell input, use every other, or fourth cell as necessary

Installation:
Accelerometers should be mounted as close to the center of the vehicle as possible and level in the X and Y direction. Accelerometer must be mounted to a secure surface utilizing all three (3) #8 mounting holes.

Wiring:
Gray – Ground
Blue - +5V
Brown – X-Axis Output to ECU
White – Y-Axis Output to ECU
Black – Z-Axis Output to ECU

Calibration:
After mounting and wiring, check voltages on all three outputs. The voltages should read between 2.XXV and 2.XXV on the X and Y axes, and between 2.XXV and 3.XXV on the Z axis. The Z axis is higher because of the effect of gravity.

Creating the calibration chart
The accelerometer has a gain of .494V per “G”, that is to say that if your base voltage is 2.48V, at 1 “G” of acceleration, the output voltage would be 2.48V + .494V = 2.974V. The output is linear so these values can be extrapolated up to the full range of the sensor.

RIFE SENSORS by TBM

Acceleration (G)	Voltage (V)
4.00	4.46
3.75	4.34
3.50	4.21
3.25	4.09
3.00	3.97
2.75	3.84
2.50	3.72
2.25	3.59
2.00	3.47
1.75	3.35
1.50	3.22
1.25	3.10
1.00	2.98
0.75	2.85
0.50	2.73
0.25	2.60
0.00	2.48
-0.25	2.36
-0.50	2.23
-0.75	2.11
-1.00	1.99
-1.25	1.86
-1.50	1.74
-1.75	1.61
-2.00	1.49
-2.25	1.37
-2.50	1.24
-2.75	1.12
-3.00	1.00
-3.25	0.87
-3.50	0.75
-3.75	0.62