Product: Speedometer	**Description**	**Date** Aug 03
Type: Electrical	**CALIBRATION PROGRAM**	**Issue** 1

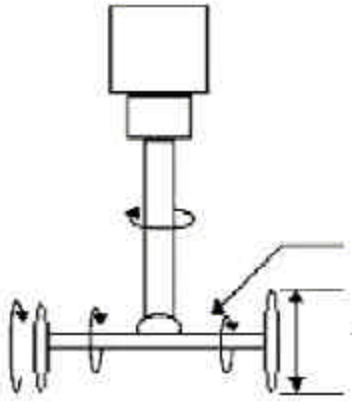
CALIBRATION PROGRAM FOR HALL EFFECT SENDER

In Parameters Are The Following:

- Tire Diameter X 3.14159 = Tire Circumference
- Tire Circumference / 12 = Tire Circumference in feet
- 5280' / Tire Circumference in feet = Tire Revolutions per Mile
- Tire Revolutions per Mile X Rear End Ratio (411 rear enter as 4.11) Pulse
- Pulse X (Drive Gear / Drive Gear) X 16 Pulse per Revolution Sender = Pulse per Mile

Computation Results:

Computed Driven Gear is 39776 Ratio of Driven over Drive Gear is 2486.0



Engine	No. of pulses per mile
Transmission	*Known:* 16 pulse/rev. Tire Diameter Rear End Ratio
Rear	1 mile = 5280 feet
X= Tire Diameter	

Example:

Tire circumference = 2**?** R R = Diameter / 2 = 28.88 / 14.44
= 2 x **?** x 14.44 = 90.73 inches / 12 inches = 7.56 feet
So ... 1 tire revolution = 7.56 feet of travel …

How many revolutions (tire) to go 1 mile ? 5280 feet / 7.56 feet = 698 revolution Rear end ratio = 3:55:1

3:55 ? 1
2479 ? 698
2479 = revolution at transmission
2479 revolutions x 16 pulses (Teeth) / revolution = 39669 pulses.