

Beede Electrical Instrument Company, Inc. 88 Village Street, Penacook, NH 03303-8910 Phone: (603) 753-6362 FAX: (603) 753-6201

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Beede Electrical Instrument Co., Inc. warrants all instruments and accessories free from all defects in workmanship and materials on gauges that are less than three (3) years old or have been in service fewer than two

WARRANTY

TRUCK • three (3) years old or have been in service fewer than
(2) years and, at no charge, will replace or repair at
Beede's option all instruments that fail.

Contact Beede for complete details.

Speedometer Calibration Instructions

1. Determine expected pulses per mile of speedometer signal.

PULSES PER MILE = AXLE RATIO X TIRE REVS/MILE (NOTE 2) X NUMBER OF PULSES/REV OF PULSE GENERATOR

Example: AXLE RATIO = 3.9:1 TIRE REVS/MILE = 491

> PULSES/REV OF PULSE GENERATOR = 16 PULSES PER MILE = 3.9 X 491 X 16 = 30638 4

2. Determine N in the expression below:

$$N = \frac{PULSES PER MILE - 10,000}{25}$$
 Example:

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$$N = \frac{30638.4 - 10,000}{25} = 825.536$$

- 3. Round N to the nearest whole number (Example 825.536 to 826).
- 4. Close all switches (See switch setting detail).
- Subtract largest possible number in switch table from N which
 does not result in a negative remainder. Table number = 512.....OPEN SWITCH 3.
 Example: 826 (N) 512 (Table number) = 314 (Remainder)
- 6. Repeat step 5 using the remainder until the result is zero.
- 7. Remainder from step 5 = 314, table number = 256.....OPEN SWITCH 4.
- 8. Remainder from step 7 = 58, table number = 32.....OPEN SWITCH 7.
- 9. Remainder from step 8 = 26, table number = 16......OPEN SWITCH 8.
- 10. Remainder from step 9 = 10, table number = 8......OPEN SWITCH 9.
- 11. Remainder from step 10 = 2, table number = 2......OPEN SWITCH 11.
- 12. Remainder equals zero. Switch code is 3, 4, 7, 8, 9, 11.
- 13. Fnd of calibration.
- 14. Calibration check:

⚠ NOTES

1. Switch code is only read during speedometer power up. Changes to the switch code while power is applied will have no effect until power is removed and reapplied.

2. Contact tire manufacturer for tire

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revolutions per mile.

SWITCH TABLE		
Switch Position	Table Number	
1	2048	
2	1024	
3	512	
4	256	
5	128	
6	64	
7	32	
8	16	
9	8	
10	4	
11	2	
12	1	

