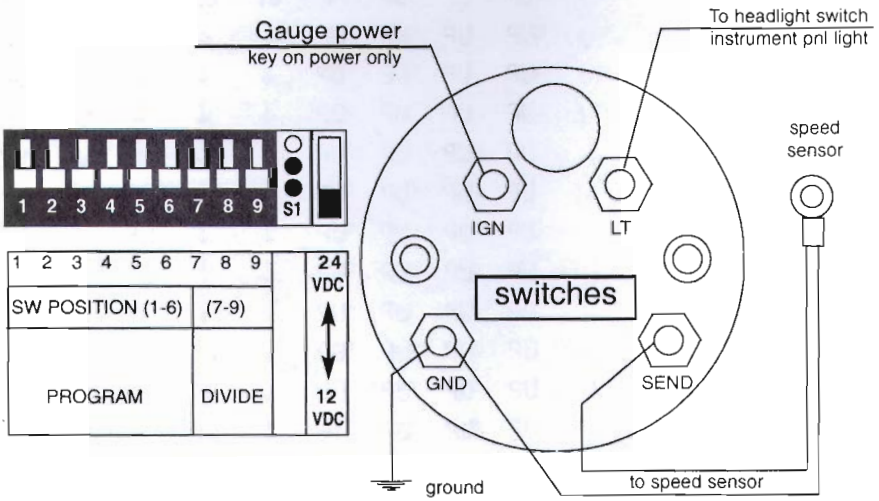
PROGRAMMING TIPS: (ELECTRONIC SPEEDOMETER)

After installing your new Dolphin electronic speedometer, you are now ready to program. First, ensure that the dip switches marked 3, 5 and 6 are in the up position and that all other switches are down. With a pace car running at 55 mph, you will look to see what speed the speedometer is reading and make a mental note or write this number down. For example, you have made a test drive and your speedometer is reading 80 mph while the pace car was running 55 mph. Return to the yellow instruction manual and look up the settings for 80 mph which shows that switches 3, 4, 5 and 8 should be up with all others down. Make these adjustments and run another test drive to see if any additional calibration is needed.

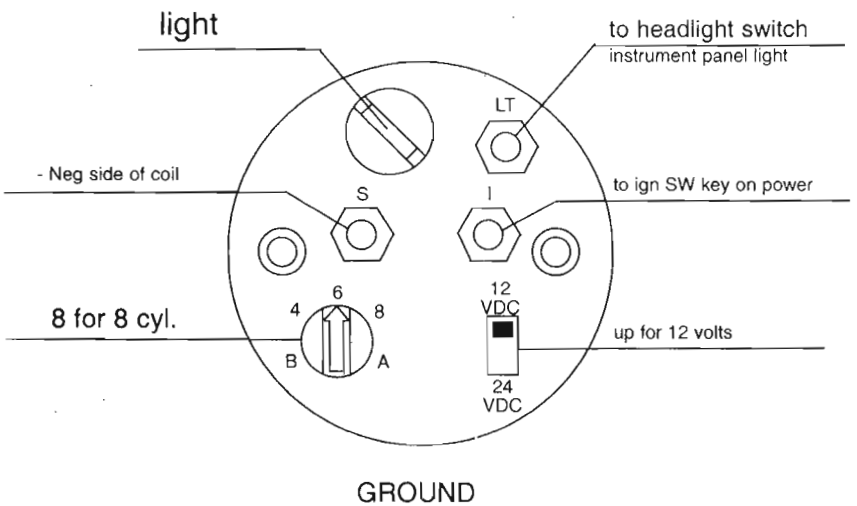
If you are using a newer transmission (700R4,L460E) with integral pulse generators your initial settings should be the 155 mph setting which is switches 2, 4, 5, 6, 7 and 9 in the up position and all others down. Using this setting will slow down the gauge to get you in the ballpark. For example using one of these transmissions, you have set the switches at the 155 mph setting and have run your road test. With the pace car running 55 mph, your speedo reads 85. The difference between 85 and 55 is 30 mph and this number is added to your 155 setting to get 185. Return to the book and adjust the switches that reflect the 185 mph setting which would be 2, 3, 5, 6, 8 and 9 up and all others down. Repeat test drive to see if further adjustment is needed.

Programmable Speedometer

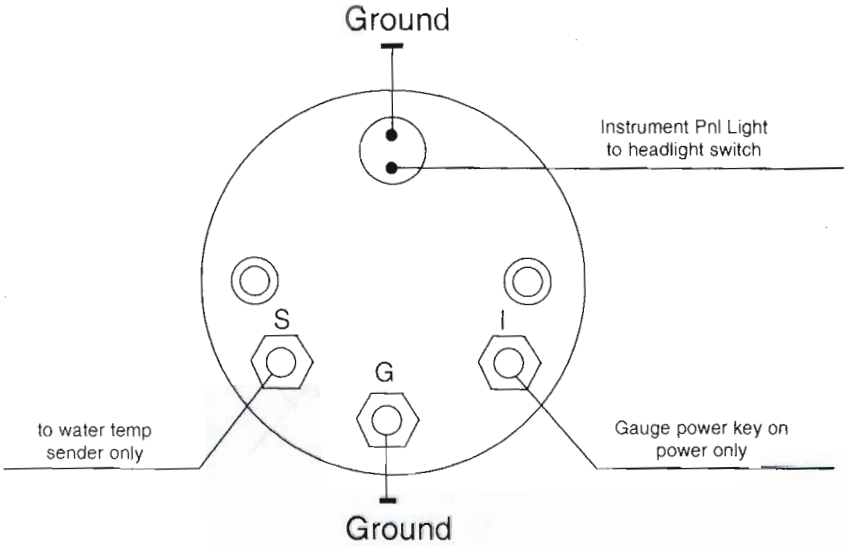


1 2 3 4 5 6 7 8 9		24 VDC
SW POSITION (1-6)	(7-9)	
PROGRAM	DIVIDE	12 VDC

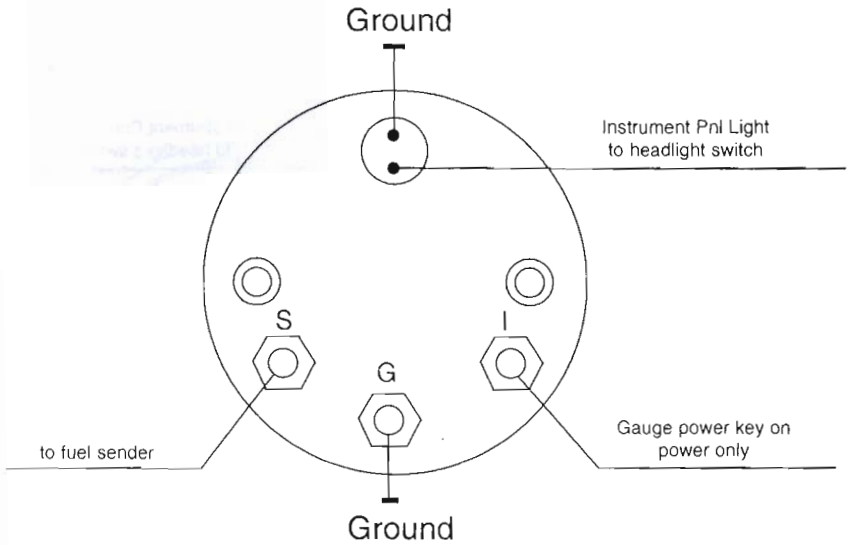
Tachometer - Wiring Diagram



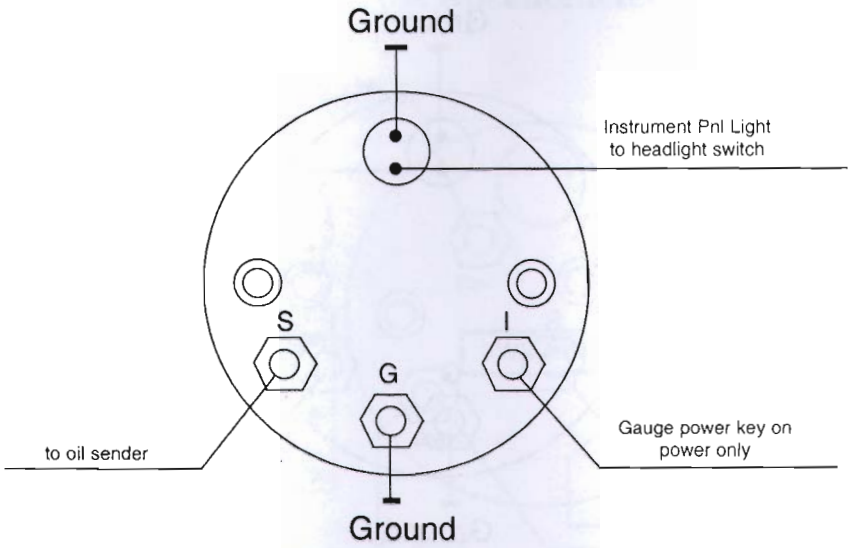
Wiring Diagram - Electrical Temp. Gauge



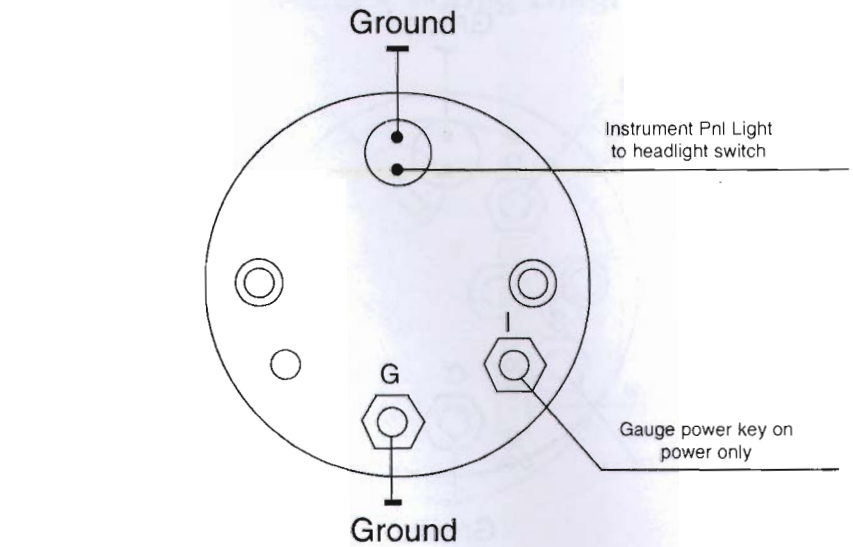
Wiring Diagram - Electrical Fuel Gauge



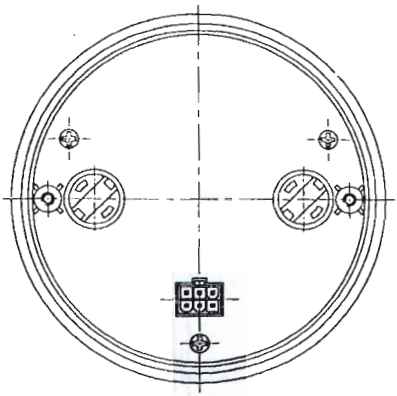
Wiring Diagram - Oil Gauge

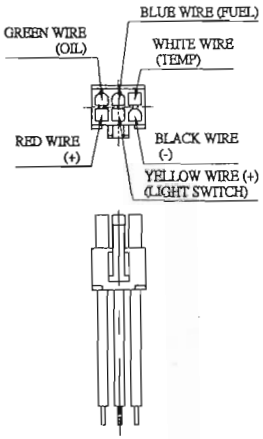


Wiring Diagram - Electrical Voltmeter

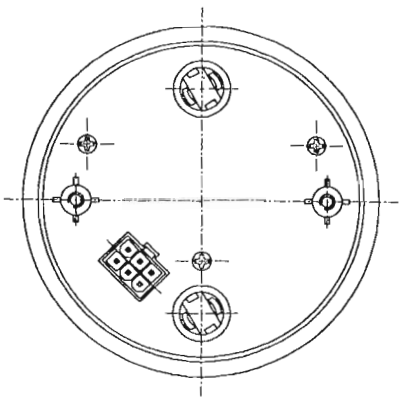


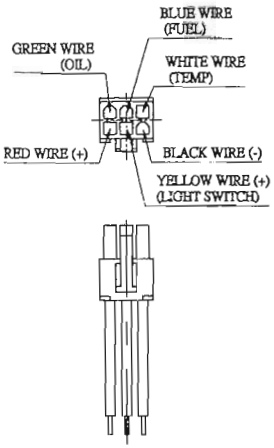
Wiring Diagram - 5" Quad (Oil/Fuel/Temp/Volt)



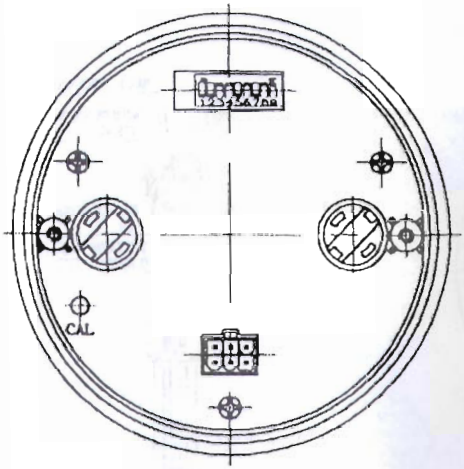


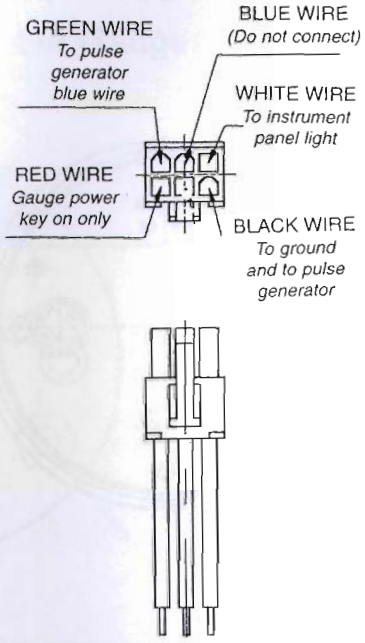
Wiring Diagram - 3 3/8" Quad (Oil/Fuel/Temp/Volt)



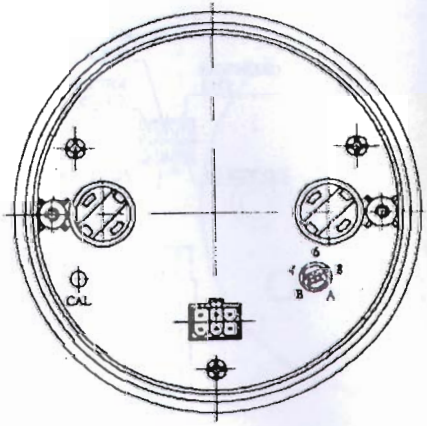


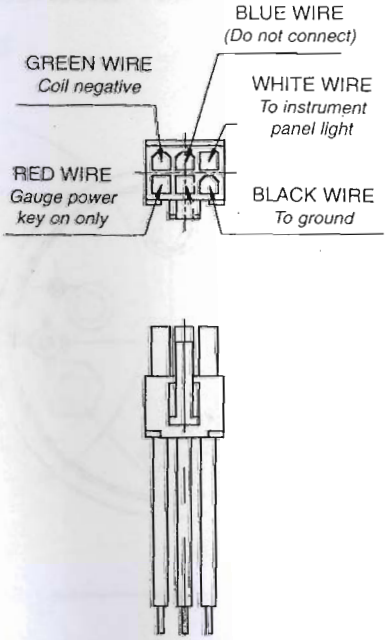
Wiring Diagram - 5" Programmable Speedo/Odometer





Wiring Diagram - 5" Electrical Tachometer



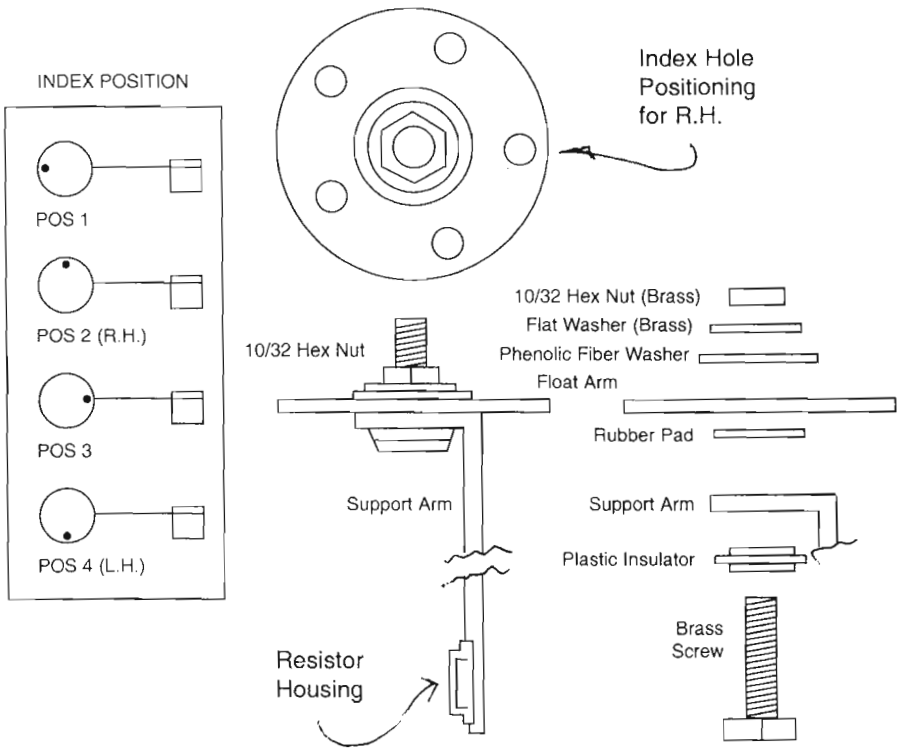


CAUTION

DISCONNECT BATTERY CABLE BEFORE INSTALLING FUEL LEVEL SENDER

INSTALLATION INSTRUCTIONS FOR FUEL SENDER

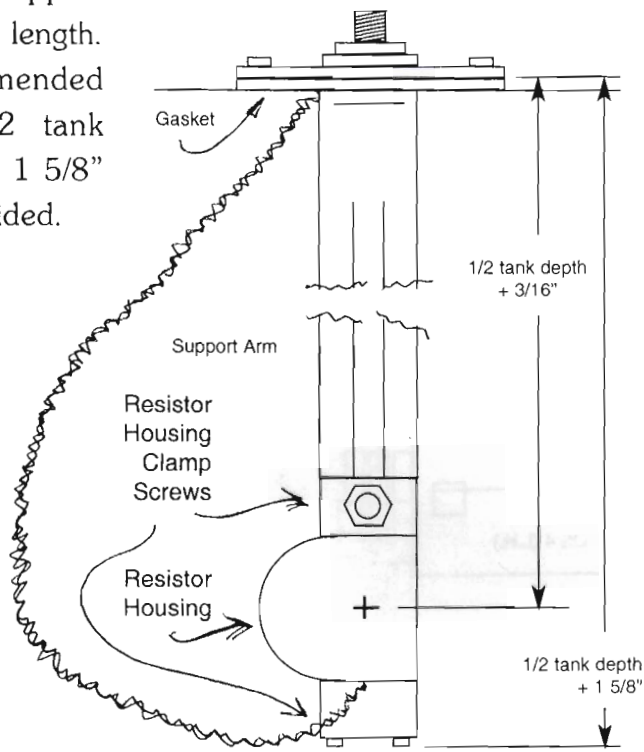
Step 1. Determine required arm float position. (Unless otherwise specified, senders are assembled for R.H. float arm position). Position is determined by comparing the screw hole pattern on the tank to the pictures below.



Step 2. If necessary to reposition float arm in any direction, loosen 10/32 hex nut and rotate index hole as per the above mentioned index position. If hex nut is removed from stud, care must be taken that sealing hardware is correctly reassembled onto stud. See build-up of parts above. Do not tighten hex nut on stud.

Step 3a. Loosen resistor housing clamp screws and slide to this position which is 1/2 tank depth + 3/16" (tank depth measured from bottom of the mounting flange). Tighten two screws in resistor housing.

Step 3a. Cut support arm to length. Recommended that 1/2 tank depth + 1 5/8" be provided.



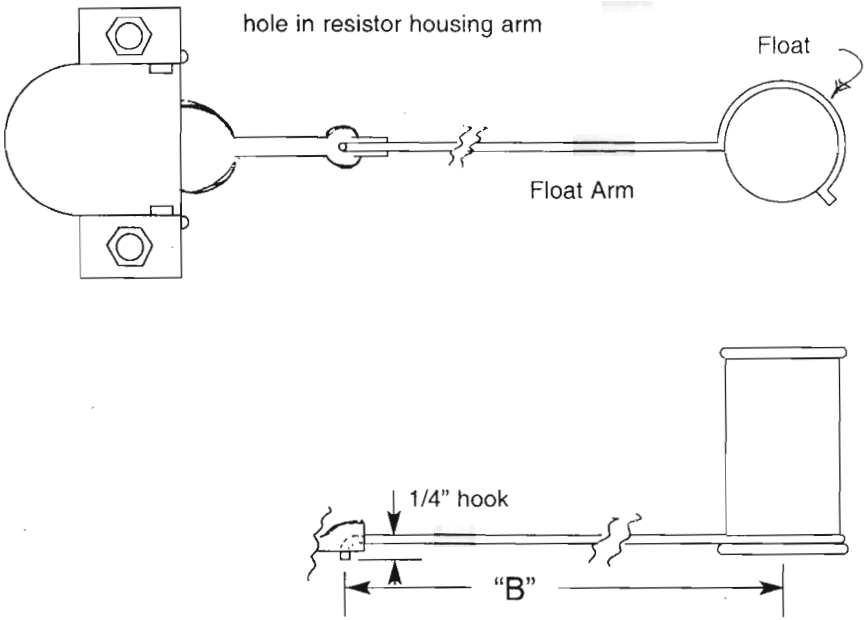
Step 4. Cut lead wire from housing to suitable length and strip end insulation from 1" wire. Thread stripped wire through slot in insulator and under stud. Tighten hex nut on stud.

Step 5. Bend float arm to "B" dimension. Care should be taken in handling the float arm when the float has been installed. Any damage to the float will cause the sender to be in error. "B" dimensions for tank depths of " to 24" are as follows:

A	B	A	B	A	B
6	1 15/16	12	5 13/16	18	9 3/4
6 1/2	2 1/4	12 1/2	6 3/16	18 1/2	10 1/16
7	2 9/16	13	6 1/2	19	10 7/16
7 1/2	2 15/16	13 1/2	6 13/16	19 1/2	10 3/4
8	3 1/4	14	7 1/8	20	11 1/16
8 1/2	3 1/2	14 1/2	7 1/2	20 1/2	11 7/16
9	3 7/8	15	7 13/16	21	11 3/4
9 1/2	4 3/16	15 1/2	8 1/8	21 1/2	12 1/16
10	4 1/2	16	8 7/16	22	12 3/8
10 1/2	4 7/8	16 1/2	8 3/4	22 1/2	12 11/16
11	5 3/16	17	9 1/8	23	13
11 1/2	5 1/2	17 1/2	9 7/16	23 1/2	13 3/8
				24	13 11/16

A. Tank Depth B. Float Arm Bend Dimension

Cut off excess, leaving 1/4" hook on float arm when float is flat in the horizontal position. Insert this hook into the hole provided in the resistor housing arm. Crimp resistor housing arm firmly around the float arm. Straighten float arm if necessary.



Step 6. Carefully position gasket under flange by moving gasket over float, float arm, support arm and resistor housing.

Step 7. Install completed sender in tank by threading the sender, float end first, into tank mounting hole. Carefully align sender flange screw hole pattern with mounting screw hole pattern.

Step 8. Install all 5 mounting screws and tighten securely. If sealing screws are used, the sender flange must be grounded to the vehicle chassis (a wire should be connected between the metal flange and a metal chassis part).

Programming Instructions for One Touch Speedometer

Step one: Wiring

Red = Key on power (12V+)
Black = Ground
Green = Sending unit in (pulse generator)
Yellow = to light switch (instrument panel)
Blue = Key on Power (12V+)
Orange = Alarm output (audible alarm or light)
White = Choice switch (other leg of choice switch is ground)

Step two: Programming

***Note* At this time, read through the instructions carefully to familiarize with the calibration process. It would be helpful to have someone drive while the other programs but it is not required.**

After completing the wiring as shown, you are now ready to program. Turn key to the on position. You should see the odometer screen come up in the window at the base of the speedometer. Hold the choice switch down for about 10 seconds. The "hello" screen should appear. Once it does, release switch. The F-Set (frequency set) screen will now be showing. Press choice switch one time and you will notice that the first zero will begin flashing. After 3-4 seconds, it will automatically switch to the next number in line. When finally reaching the third number, press choice switch repeatedly until a "3" is displayed. Wait 3-4 seconds and the next figure will begin flashing. Press choice switch repeatedly again until "3" is displayed again. In 3-4 seconds, the last number will begin flashing. Just wait until the first number begins flashing again and let the gauge cycle through all the numbers until it finishes and the odometer screen will reappear. Under the F-Set screen, the final number should have read F00330. If not, begin step two again.

Step three: Distance Calibration

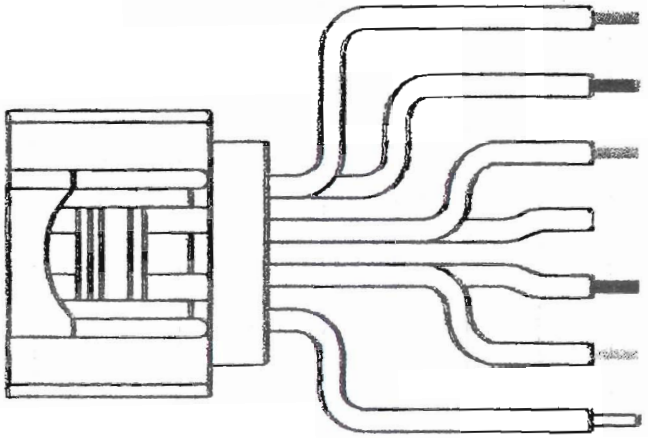
Now we are ready for distance calibration. You will need to find a known, accurate one mile distance for this step. Once at the beginning of this distance, press choice switch for about ten seconds. Once the "hello" screen appears, release the choice switch. The F-Set screen will show for 3-4 seconds and then switch to CAL-F. Once the CAL-F screen comes up, press choice switch one time. The "start" screen will appear. Press choice switch one time and the "go" screen will appear. Begin your one mile drive. At the end of this distance, stop and press the choice switch one time. "Set-In" will now show in the window and automatically switch to the F-Set screen followed by a return to the odometer screen. The programming is now complete. Test drive with a pace car and adjust the frequency as needed. ***Note*** **The higher the frequency setting, the slower the speedometer; the lower the frequency, the faster the speedometer.**

Step four: Options Programming

***Note * The one touch speedometer has a few extra options for you to use at your discretion. You have trip, hour meter, max speed and speed alarm. Calibration is as follows.**

Under the odometer screen, press choice switch for about one second and release it. Now by pressing the choice switch repeatedly, you can cycle through the options available to you. Under the Trip screen, hold choice switch down for about 2 second to reset it. Under Max Speed screen, press choice switch for about 2 seconds to reset it. Under the Alarm screen, hold choice switch for about 2 seconds to enter the programming. Once the numbers begin flashing, press the choice switch button rapidly to get to the desired number. Once it switches to the next figure, press button to get to next number desired. Once completed, the numbers will cycle and then automatically switch back to the odometer screen.

Wiring diagram For SHARK One Touch Speedo



1.Red wire... to"+" (Key ON)

2.Black wire... to system ground

3.Green wire... to Speedo sensor

4.Yellow wire... to light switch (L+)

5.Blue wire... to hourmeter set up (V+)

6.Orange wire... to alarm output (+12VDC)

7.White wire... to set up & choice switch