

Still have questions??  
Call our Tech Support  
@ 386-212-1611



OMEGA KUSTOM  
INSTRUMENTS  
*The last gauge you will ever need!*

Visit us on the web @  
[www.omegakustom.com](http://www.omegakustom.com)  
for all your instrument needs.

Please Read Manual Before Calling  
You Will Need To Be Familiar With  
Manual For Tech Assistance

***Do Not Call Your Dealer or Our Sales  
Department. This will only delay you  
getting help.***

**TECH NUMBER**  
**386-212-1611**

***If No Answer Leave Message  
You will receive a return  
call within 24 hours***



OMEGA KUSTOM  
INSTRUMENTS  
*The last gauge you will ever need!*

ALL GAUGES ARE ISO 9001-2000

rev 7 [2] 9/12/2014

OWNER'S  
INSTALLATION  
MANUAL

**See Seperate  
Insert for.  
3 n 1 Gauges**

# INDEX

## Description

Odometer . . . . .	Page 2
Setting the Speedometer . . . . .	Page 3
Speedometer Install . . . . .	Page 5&8
Water Temp, Oil & Fuel. . . . .	Page 7
Volt and Clock. . . . .	Page 7
4-in-1 Quad. . . . .	Page 9
Tachometer . . . . .	Page 6
Harness A 4 Pin Connector . . . . .	Page 10
Harness B 6Pin Connector . . . . .	Page 11
Speed Sensor Connections . . . . .	Page 8
Tips . . . . .	Page 12
Specifications . . . . .	Page 13

## Warranty

Original instructions are valid to the original purchaser for 3 years or free from  
defects in material or workmanship  
Instructions that have been used, misused, altered, have been changed, installed improperly  
or have been altered will void the warranty  
This warranty does not include indirect damage or costs incurred by a gauge failure  
This warranty is limited to repair or replacement at our discretion, freight prepaid  
Proof of purchase required  
In the event of a failure, please contact our tech department for instructions

# Important: Oil Sender Connections



**If you have this oil sender:**  
“G” goes to oil gauge  
“WK” is low pressure warning  
You donot have to use “WK”

**Water Temperature Senders Are 1/8” NPT**

## Sender and Gauge Specifications

**Oil Sending Unit:** 0 psi.....240 Ohms  
20 psi.....152-160  
40 psi.....40-103  
60 psi.....65-68.3  
80 psi.....33.5

**Oil Gauge Tolerances:** 0 psi.....+0/-6 angular degrees  
40 psi.....+/-3 angular degrees  
80 psi.....+6/-0 angular degrees

**Temp Sending Unit:** 100 deg.....450 Ohms  
150 deg.....158  
175 deg.....99  
200 deg.....64.3  
250 deg.....29.6

**Temp Gauge Tolerances:** +/-3 angular degrees @  
100.175 and 250 Degrees

**Fuel Sender Range:** 240 Ohms.....Empty  
33 Ohms.....Full

## Trip Reset

The speedometer contains an odometer to maintain a record of the total mileage and trip mileage. During normal operations and after a power on the odometer display shows;



This display cannot be reset. A quick press of the push-button changes the display to the Trip odometer.



### Trip Odometer

The Trip odometer allows you to keep a record of the trip miles or kilometers independent of the Odometer.



The Trip Odometer is fully user reset-able. While in the Trip Odometer display press the push-button for 4 seconds and the Trip odometer is reset to zero.

For tech help call  
**386-212-1611**

# Speedometer Set

## TIPS

Start vehicle. Press and hold button until display shows:

HELLO

Release button. Push button TWO more times then release. The display will show:

SELF Hi

Release button. Display will change to:

PEnd in9

Drive to the beginning of the measured mile. Push button to start. Display will change to:

SELF Hi

Drive the measured mile. At the end of the mile push button. The display will change back to Odometer. Your speedometer is now set.

If speedo displays (CALC In9) for more than 10 seconds. Perform Set Sensitivity on Page 4

### TIP 1:

The most common cause of an inoperable gauge is "Ground". We *cannot* stress enough the importance of grounds. The battery ground must be connected between the battery and the engine, regardless of where the battery is located in the engine compartment. The chassis *is not* a suitable ground. There must be a good ground between the engine and body and engine and chassis. The fuel tank sender must also be grounded to the chassis or body. Do not rely on straps or brackets to ground tank.

### TIP 2:

**Never use TEFLON tape on oil & temperature sending units!** This can create a bad ground between the engine and the sender which will cause the gauge to read improperly or not work at all. Use a small amount of TEFLON paste as a sealing agent.

### TIP 3:

Take special care when measuring and cutting fuel sender as described in instructions. The more accurate you are the more precise the fuel gauge will read.

### TIP 4:

Speedo needle may not move until speedo is programmed.

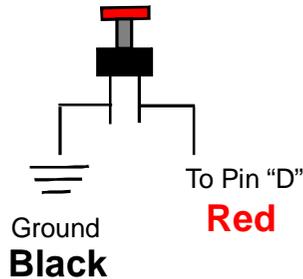
### TIP 5:

If HELLO is displayed in the odometer screen When the key is turned on the push button switch has been damaged and is shorted to ground. Switch must be replaced with a normally open switch before programming can be performed.

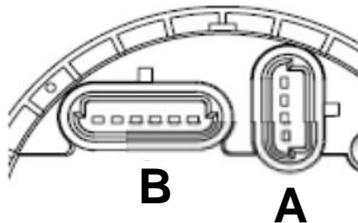
## Harness B 6 - pin connector

Pin A	12V Switched Ignition
Pin B	Chassis Ground Black
Pin C	Not Used
Pin D	To External Button White
Pin E	Not Used
Pin F	Not Used

External Push Button



- Not Used (Cap Off) **Blue**
- Not Used (Cap Off) **Yellow**
- To External Push Button (White)
- Not Used (Cap off) **Orange**
- Ground (Black)
- 12V Switched Ignition **Purple**



The speed at this point is not important. The operator may even stop and wait, as long as power is not turned off and the measured mile is followed as straight as possible, the operator may not turn around and go in the opposite direction. Also for the maximum accuracy, the operator should not enter any off road parking as this would deviate from a straight mile measurement.

## SET SENSITIVITY

If after programming speedo needle is erratic, drops quickly when speed drops below 30 mph, does not move until you are going over 10 mph then jumps up, does not move at all or gets stuck in calculating. Follow the following procedure to change the sensitivity.

Hold button in while turning on key.

Display will change to:

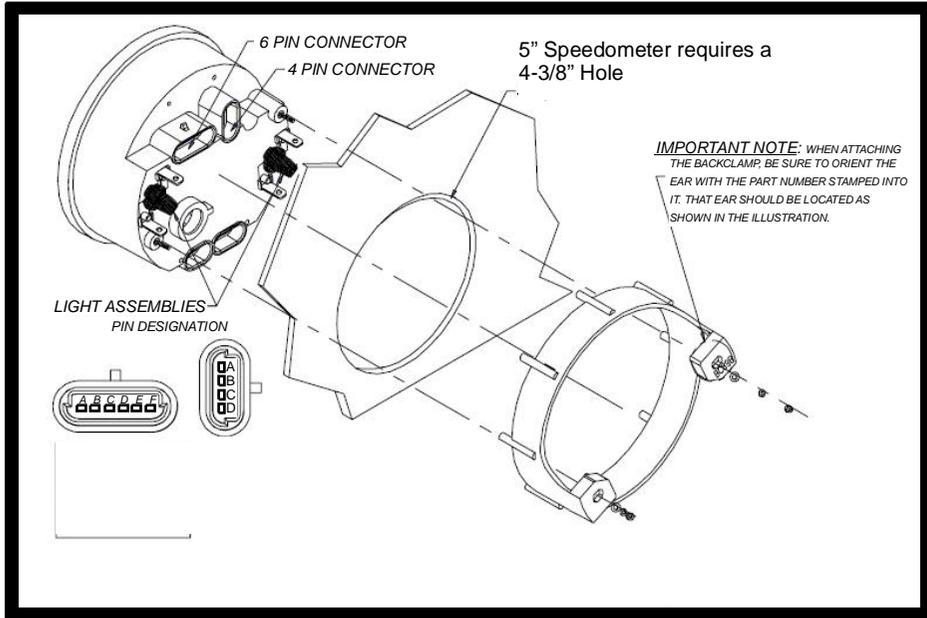
HELLO

Release and tap button until you see:

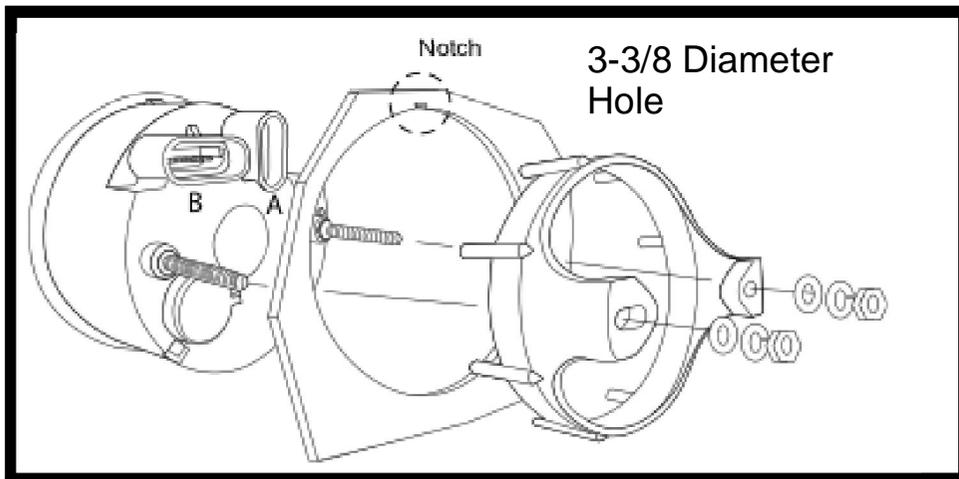
INPUT

Release button. Display will change to a group of 3 letters (L n H). When the "L" is blinking push and release button. Display will return to odometer. It may be

# 5" ELECTRICAL SPEEDOMETER



# 3-3/8" Electronic Speedometer



# Harness A



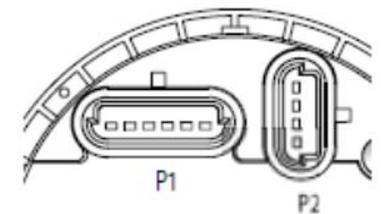
<b>Pin A</b> Power Out	Red/White Tracer: Connect to Red wire on 3 wire signal generator. Cap off if using a 2 wire signal generator, VSS or GPS.
<b>Pin B</b> Signal In (VSS)	Brown/White Tracer: Connect to White wire on 3 wire signal generator. Connect to one of the 2 wires on a 2 wire signal generator, VSS or GPS Signal.
<b>Pin C</b> Ground	Tan/Black Tracer: Connect to Black wire on 3 wire signal generator. Or to one of the wires on the 2 wire signal generator.
<b>Pin D</b> Power in Dash Lights	Green Wire: Connect to dash light power on 3-3/8 Speedometer. Not used on 5" Speedometer. Connect dash light power directly to bulbs.

Dash lights This wire is only used for 3-3/8 Speedo

Speed Sensor Ground **Black** On 3 Wire Sensor

Speed Sensor Pulse (VSS) **White** On 3 Wire Sensor

"Used only with 3 wire Sensor **Red** On 3 Wire Sensor  
Cap off if using 2-wire Signal Generator, VSS or GPS



# 4-in-1 Wiring

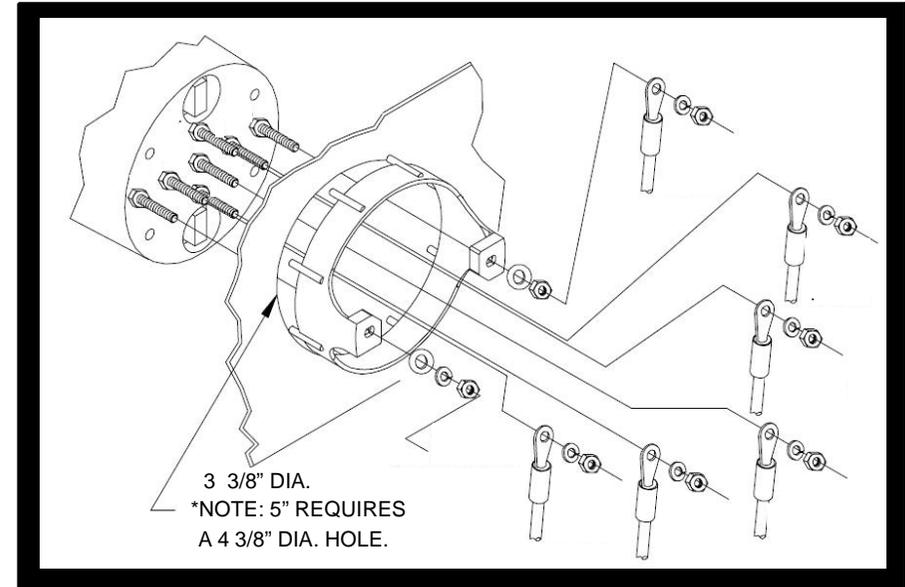
## 5" 4-in-1 Gauge Wiring

1. Ground
2. Not used
3. Lights
4. Fuel Sender
5. Temp Sender
6. Oil Sender
7. Battery Ignition

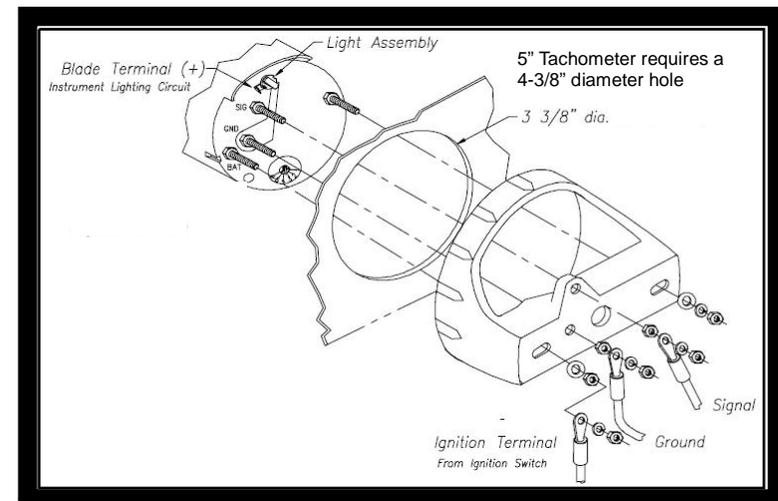
## 3-3/8" 4-in-1 Gauge Wiring

1. Lights
2. Not used
3. Temp Sender
4. Ground
5. Oil Sender
6. Fuel Sender
7. Battery Ignition

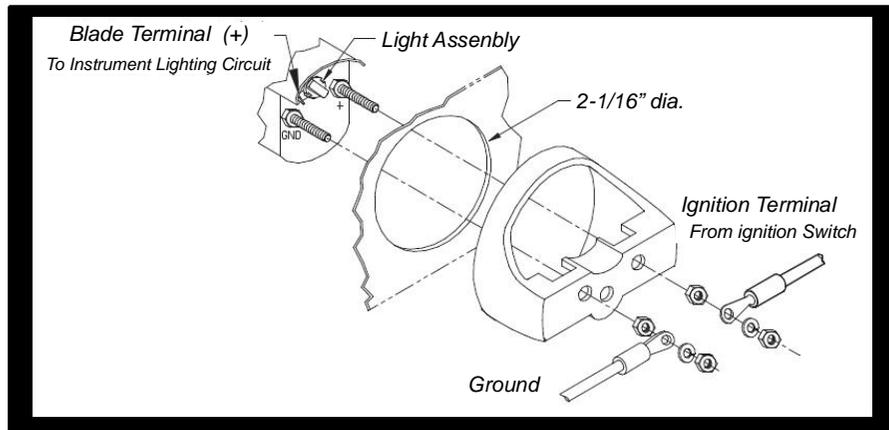
4-in-1 GAUGE  
FUEL, OIL PRESSURE, TEMPERATURE, VOLTS



TACHOMETER

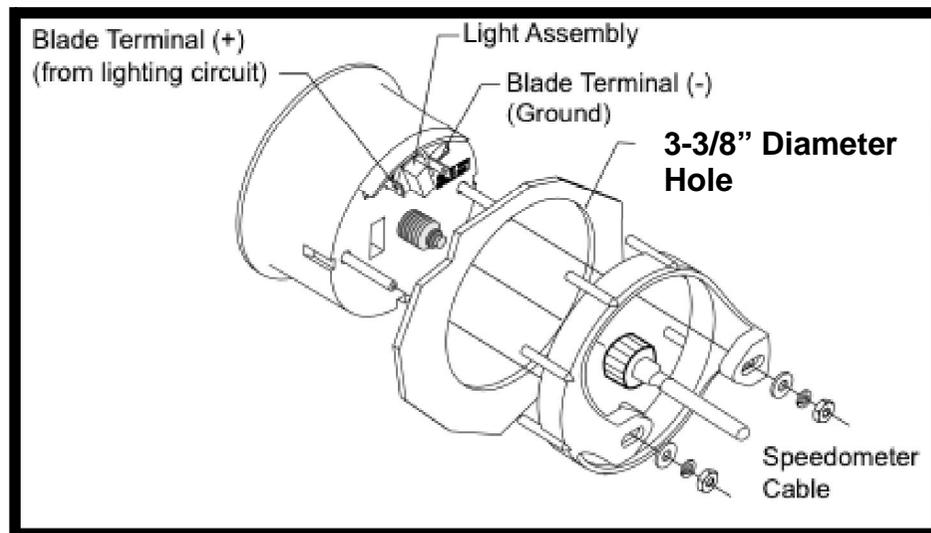


## VOLTAGE METER & CLOCK

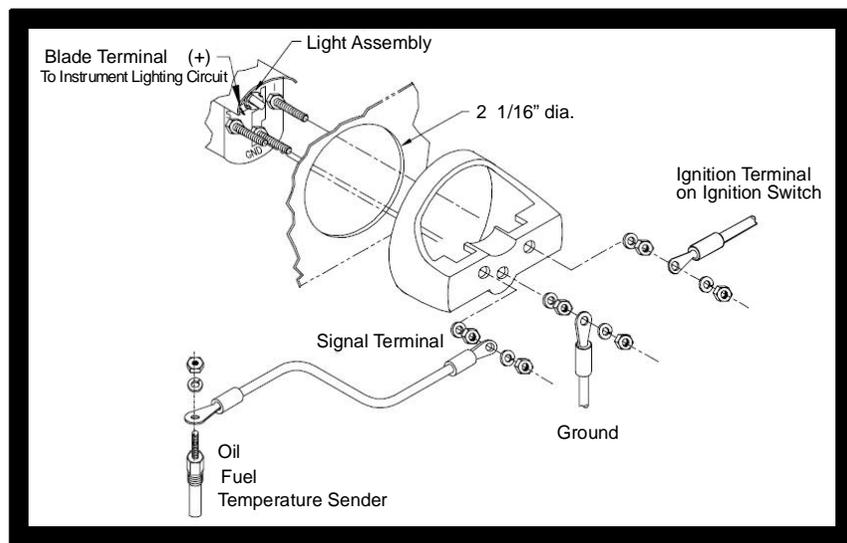


NOTE: Clock may have 3 Terminals if so looking at gauge from behind the left and center terminal are Ground.

## 3-3/8" Mechanical Speedometer



## WATER TEMP, OIL PRESSURE & FUEL GAUGES



## Speed Sensor Wiring

**TWO** wire pulse sensors will connect to harness "A" Pin "B" (Brown/White Tracer Wire) and Pin "C" (Tan/Black Tracer Wire).

**THREE** wire Signal Generators will connect to Harness "A". Pin A (Red/White Tracer Wire) to red wire of signal generator. Pin B (Brown/White Tracer Wire) of generator and Pin C (Tan/Black Tracer Wire) to black wire of signal generator.

**VSS and GPS** Connect to Harness "A" Pin "B" (Brown/White Tracer Wire) Cap off pins "A" and "C"