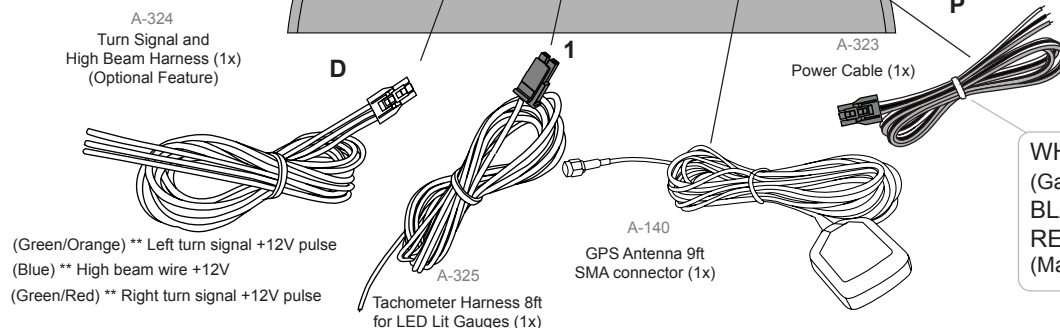# 4", 4-1/2" Dual GPS Tach/Speedometer Instructions

SPEEDHUT®

BACK OF GAUGE

ATTENTION:
Power Draw = 0.2 amp.

D 1 P

A-324
Turn Signal and
High Beam Harness (1x)
(Optional Feature)

D

1

P

A-323
Power Cable (1x)

(Green/Orange) ** Left turn signal +12V pulse
(Blue) ** High beam wire +12V
(Green/Red) ** Right turn signal +12V pulse

A-325
Tachometer Harness 8ft
for LED Lit Gauges (1x)

A-140
GPS Antenna 9ft
SMA connector (1x)

INSTALLATION

1 DISCONNECT your vehicle's negative (-) battery cable.

2 MOUNT your gauge to the panel using the spin lock ring.

3 CONNECT the gauge wiring.

4 RECONNECT your vehicle's negative (-) battery cable.

WHITE: +12v Dash Lighting
(Gauge lighting)
BLACK: Ground
RED: +12v Accessory Power
(Main Gauge Power)

ANTENNA CONNECTION

1. Hook up speedometer power requirements as shown.

2. Thread on GPS receiver antenna into back of speedometer. (Make sure it is threaded on all the way for a good connection.)

3. For best performance, mount GPS antenna with as much view of sky as possible (preferebly on the roof of the vehicle). The GPS antenna is waterproof and magnetic. If the car's roof is not accessible then mount the antenna on top of the vehicle's dash with as much exposure as possible to the sky through the window. (Antenna is able to receive signal through some thin material i.e. wood, glass, fiberglass, and plastic. All types of metal will block the signal.)

GPS QUICK START

GPS location is saved internally for up to a 4 hour period. After 4 hours it will take 30-40 seconds to acquire signal again.

MENU FEATURES

Select different menu items by pressing the button once the GPS has acquired.

Odometer and Trip

000000
TRIP 00000

Odometer (shows up to 999,999)

Trip Odometer (shows up to 99,999.9)

Press and hold button to reset trip.

Clock

000000
10:15 AM

Clock Feature. Time is acquired from GPS satellites. User only needs to adjust the hour setting for their time zone.

PRESS AND HOLD button to set clock hours. (Color will invert)
Toggle through A.M./P.M. hours until correct time is reached.
Release button for several seconds and time is stored. (Color will return to normal)

Elevation

000000
4160 FT

Elevation feature is acquired from GPS satellites and shows the current elevation from sea level in feet or meters depending on the model.

Speed (MPH or KMH)

000000
65.5 MPH

Speed feature shows MPH or KMH in display depending on the model.

Direction

000000
N DIR

Shows the current direction

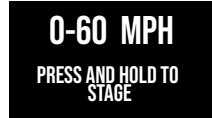Note: Default direction is North(N). Correct direction is displayed only when moving.

Peak

000000
PEAK SPEED 123 MPH

Shows the top speed reached.

Press and hold to clear peak.

0-60 MPH Time

0-60 MPH
PRESS AND HOLD TO STAGE

Press and hold button to stage while car is stopped. Timer will start as soon as car starts to move. Accelerate to 60+ MPH/100+ KMH. Timer will stop once 60MPH/100KMH is reached and show the time to nearest 1/100th of second on screen and distance in feet traveled.

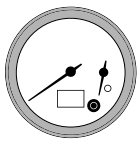### 1/4 Mile Time

1/4 MILE
PRESS AND HOLD TO STAGE

Press and hold button to stage while car is stopped. Timer will start as soon as car starts to move. Drive through 1/4 mile. Timer will stop once 1/4 mile distance is reached and show the time to nearest 1/100th of second and speed to nearest 1/10th mph.

About Screen

160 MPH GPS V.1.0
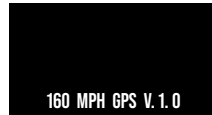
Displays gauge version.

TACHOMETER SETUP MENU

Follow the steps below for all menu items
1. PRESS AND HOLD button down while turning on gauge power to enter tachometer setup menu.
2. A quick button press will toggle LCD screen through all available menu settings below.
3. PRESS AND HOLD to select the menu item (2-3 seconds).
4. PRESS AND HOLD button to change setting.
5. RELEASE button and menu will be saved after 5 seconds.

SET SHIFT POINT ! HOLD TO SELECT	Set Shift Point Note: Move pointer to the desired shift point. At the desired shift point, release button and setting will be saved after 5 seconds
SET DAY BRIGHTNESS ☼ HOLD TO SELECT	Set Day LED Brightness Note: PRESS and RELEASE button to toggle through the brightness settings. There are 4 brightness settings including off.
SET NIGHT BRIGHTNESS ☾ HOLD TO SELECT	Set Night LED Brightness Note: PRESS and RELEASE button to toggle through the brightness settings. There are 4 brightness settings including off.
SET PULSE PER REV 4.0 HOLD TO SELECT	Set Pulses Per Rev Note: Set how many pulses per revolution the tachometer will see.

Pull up resistor needed to amplify signal.

Ignition System	Distributor-Based (Single-Coil)	Distributorless (Coil Packs)	Coil - On - Plug (COP)	OEM ECU Connection	Aftermarket ECU Connection
Example Image	(+) YELLOW (-)	YELLOW	YELLOW	+12V ACC — A-329 4.7K Ω — YELLOW — OEM ECU	AFTER-MARKET ECU
Description	All spark plugs are connected to the same 1 coil.	There are twice as many spark plugs as there are engine coils.	There is an equal number of engine coils and spark plugs.	The vehicle's ECU has a tachometer output wire.	The vehicle's ECU has a tachometer output wire.
Connect Signal Wire (Yellow)	Connect signal wire to negative (-) coil terminal.	Connect signal wire to the trigger wire of any 1 coil.	Connect signal wire to the trigger wire of any 1 coil.	Connect signal wire to ECU tachometer output. Requires a resistor.	Connect signal wire to ECU tachometer output. Does NOT require a resistor.

TROUBLESHOOTING

If the tachometer pointer is not moving, check that you are connected to the correct coil wire and that the gauge is getting power. If connecting to an OEM ECU, you may need a pull up resistor as shown on page 1.

If the tachometer pointer is not stable and bounces around, this may indicate that the tach is picking up electrical noise. Isolate the wire and move it away from any high-voltage sources like spark plugs and relay switches.

WARNING: **HIGH VOLTAGE can be present on ignition coil wires.** Ensure engine is OFF before connecting yellow tachometer signal wire to a coil.

ATTENTION: If the tachometer signal wire is connected to the wrong coil wire, the tachometer will NOT function. **This will NOT damage the tachometer or the vehicle's ignition system.**