

**Longacre®**



# AccuTech™ Digi Tach™

## Installation and basic operation:

On the back of the tach there are 2 sets of wires coming out, 1 with green, brown, black, & red - see directly below.

There is a second pair - red & black - in a black casing. These are for the remote **Start/Stop** switch.

**Green wire** - to "Tach" output on ignition box or to positive side of coil on non-electronic systems. **NEVER** connect directly to high voltage!

**Black wire** - to Ground. Be sure it is connected to a solid ground. Many problems are caused by a poor ground.

**Brown wire** - Power (connect so it SHUTS OFF with ignition off).

**Red wire** - Power (connect so it has power **full time** - NOT shut off when ignition is shut off).

### Red & Black wires in Black casing for remote Start/Stop switch

These are for the remote **Stop/Start** switch. Mount where the driver can easily access it. use a 15/32" or 1/2" drilled hole. Cut the wire to the length needed. You can use the mini connector included or hardwire the switch directly.

### To recall maximim RPM:

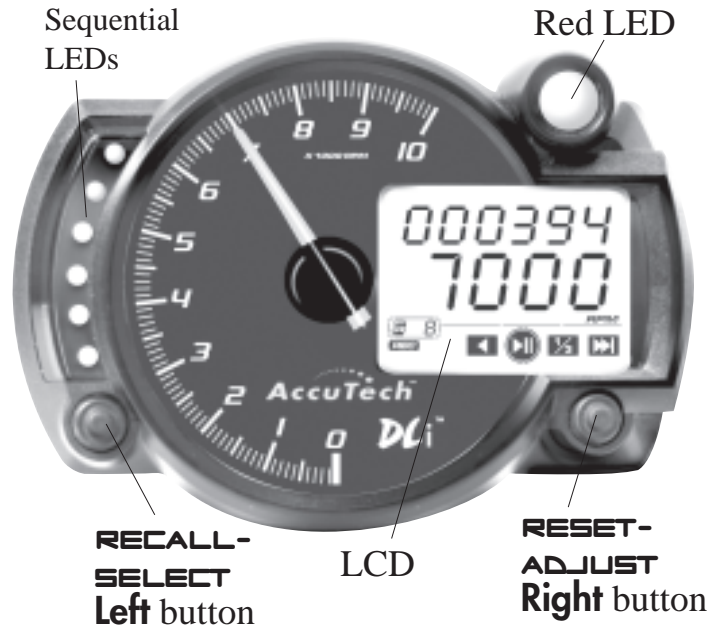
Push "**RECALL**" button on lower left side. The pointer will recall highest RPM & hold that number and will also display on the LCD to 10 RPM - **MAX** shows in LCD - lower left corner. Push again to resume normal tach operation.

**Note:** You can push **RECALL** before going on the track and the tach will constantly display the highest RPM reached to that point without pushing **RECALL** again. It does not show active RPM once RPM drops below highest point. Push **RECALL** to resume normal tach operation. This way the driver can see the max RPM without pushing buttons.

### To reset - erase max RPM:

Push **RESET** button and hold 3 seconds to erase old RPM.

LCD and pointer go to current reading.



### System requirements:

Tach works **ONLY** on negative ground systems at a **MAXIMUM** of 18 volts. Anything over this may damage the tach.

**Cars with 16 volt alternators and batteries may need to use a resistor on both red and brown wires.**

### Remote Stop/Start switch:

This red button switch is used by the driver to start and stop the recording (data logging) process. Mount where the driver can easily access it.

# QuickStart



## Record MAX RPM & Reset:

To recall **MAX** RPM push lower **Left** button. Push again to return normal tach function.  
To reset **MAX** RPM (erase) push lower **Right** button and hold for 3 seconds.

## Record (Data log) & Replay:

Recording functions are controlled by the 2 lower buttons - **Left & Right** - and by the remote **Start/Stop** button (included) mounted near the driver.

### To Record:

Push **Right** button. **- GO -** will display on LCD.

Push **remote Start/Stop** button to begin recording. Recording elapsed time is shown on top of the LCD.

Push **Start/Stop** again to stop recording.

To record another session push **Start/Stop** to get to **- GO -**, then again to start another recording session. Session numbers are shown in the lower left corner of the LCD.



### To Replay:

1) Push **Right** button to **- GO -**. Push **Right** button again to get to **PLAY**.

2) Push **Left** button to select session to replay. Session number is shown in the lower left corner of the LCD.

3) Push **Right** button to select playback speed. Options are:



The icon flashes to indicate which is being selected.

4) Push **Left** button to start actual playback. Push **Left** again to stop. While stopped you can use **Right** button to change replay speed if you wish or you can back up to play a section again.

### To Replay another session:

Push and hold **Right** button 3 seconds to exit **PLAY** mode, then push **Left** to get to **- GO -**, then again to **PLAY**. Use **Left** button to select the new session number as above, #1 - 4.

### To Erase all recorded sessions:

Push **Right** button to **- GO -**. Push the remote **Start/Stop** button and hold 3 seconds until **ERASE** appears. Release **Start/Stop**, then push and hold it again for 3 seconds. A series of bars appear and **DONE** displays. This erases **ALL** recorded sessions. There is no way to selective erase sessions.



# AccuTech™ DLi™ Tach

#44390 &  
#44591

## Set-up functions: Number of cylinders, warning light setpoints, etc.

**If you are running an 8 cylinder motor and are OK with an 8000 RPM warning light setting you do not need to go thru the setup process.**

All functions are controlled by the **RECALL-SELECT** button (moves to the next mode) **on the left** and the **RESET-ADJUST** button (adjusts settings) **on the right**. This often involves going back and forth between the two but setup is easy and only needs to be done once. Settings are saved automatically after not pushing either button for 20 seconds. If you want to keep the current setting push **SELECT** (left button) to continue on to the next mode.

### There are 2 sets of high RPM warning lights:

**On the left side of the tach are 6 LEDs that come on sequentially.** These can be used for pit road speed indication at lower RPM or a sequential shift light at high RPM. You set the highest RPM at which all 6 LEDs are on. They begin to come on - one at a time until all 6 are on - at 500 RPM below your setpoint, to give you warning. Can be set at any RPM.

**On the right side is a larger single Red LED.** This is intended to be a high RPM warning light or a shift light. It has 2 settings. At the first setting the LED comes on steady. At the second setting it flashes rapidly to aggressively attract your attention. This can also be set at any RPM you need.

If you prefer not to use either of these warning light systems set them at a high enough RPM so that they will never come on. However we strongly urge you to use at least the high RPM warning to help prevent over-reving expensive motors. **THIS TACH AND THE WARNING LIGHTS ARE NOT AN RPM LIMITER.**

## To get into setup mode hold both buttons for 5 seconds:

**Pit Road Speed** is the first selection. Each digit is set separately (digits to be set flash). Use **ADJUST (Right button)** to change. When you have what you want push **SELECT (Left button)** to move on to the next digit. Adjust the same way. (Remember that the setpoint you are establishing is the point where all 6 LEDs are on.) You can set this in 100 RPM increments. Default setting is 9000 so you will need to reset it if you want to use this feature.

If this is all you are setting when you are done simply stop pushing buttons. After 20 seconds the tach will automatically save your changes and revert to normal function. If you wish to change other settings push the **SELECT (Left button)** again and you will go into the next mode - setting the large Red LED.

**Set Red LED warning light:** After you have finished setting pit road speed above push **SELECT (Left button)**. The first setting is LED on steady (default setting 8000). Set as above using **ADJUST (Right button)**. When you have the setting you want push **SELECT (left button)** again to move on to the LED flashing setpoint (default setting 8500). Again set as above. If you are done stop pushing buttons and the tach will revert to normal function in 20 seconds. If you need to change the number of cylinders push **SELECT (left button)** again.

Set number of cylinders for your motor: This last mode comes after you are done setting the Red LED. The numbers shown represent the number of times the ignition system fires per revolution. Options are:

- .5 for 1 cylinder
- 1.0 for 2 cylinder (use this for 1 cylinder 2 cycle motors)
- 1.5 for 3 cylinder
- 2.0 for 4 cylinder (use this for 2 cylinder 2 cycle motors)
- 2.5 for 5 cylinder
- 3.0 for 6 cylinder (use this for 3 cylinder 2 cycle motors)
- 4.0 for 8 cylinder (this is the standard/default setting on new tachs)**
- 5.0 for 10 cylinder
- 6.0 for 12 cylinder

**The backlight on this tach is white and is not adjustable.**

## **Remote Start/Stop switch:**

This red button switch is used by the driver to start and stop the recording (data logging) process. Mount where the driver can easily access it.

### **Red & Black wires in Black casing for remote Start/Stop switch**

On the back of the tach there are 2 sets of wires coming out, 1 set with separate green, brown, black & red wires. These are for power and tach signal. See instructions.

There is a second pair—red & black—in a black casing. These are for the remote **Start/Stop** switch.

The **Start/Stop** switch is a red button. Mount the switch where the driver can easily access it. Drill a 15/32” or 1/2” hole. Cut the wire to the length needed. You can use the “mini” connector included or hardwire the switch directly to the red and black wires.