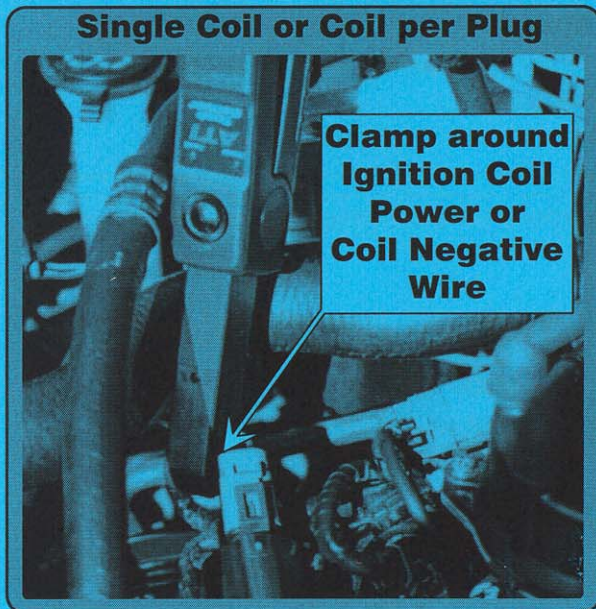


SmartTach

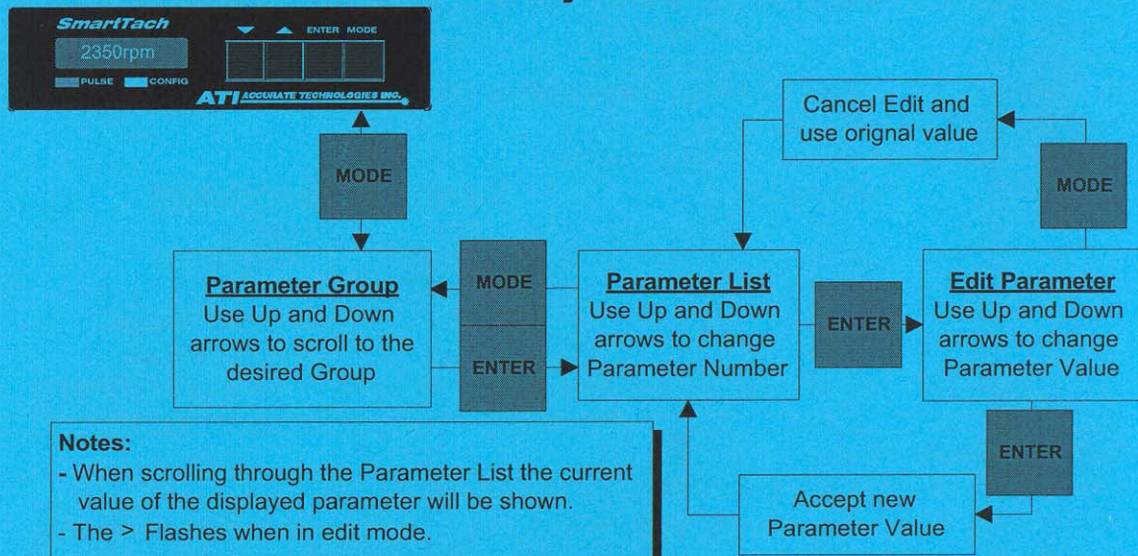
Engine RPM Quick Setup

1. Connect TS1-TachSensor to SmartTach.
2. Connect SmartTach to a 12volt Power Source.
3. Clamp TS1-TachSensor around the Low Voltage Ignition Coil Wire as shown. (see reverse side for tips on TachSensor connection)



4. Configure SmartTach for your application.
(see reverse for Parameter/Application matrix)

How to View and Modify SmartTach Parameters



5. **DONE!**

SmartTach

Engine RPM Setup Tips

TS1-TachSensor Installation Notes:

- The Green LED should be ON when the *SmartTach* is Powered.
- Do NOT clamp the TS1-TachSensor around Spark Plug Wires.
- On V8 and V10 engines with multiple Coil Packs, clamp around an Ignition Coil Negative Wire NOT the Coil Pack Power Wire.
- GM Quad 4 or other Integral Ignition Coil and Module systems, Clamp the TS1-TachSensor around the 12V Power to the Module.

(On Quad 4 engines this wire is usually Pink)

Parameter Settings (see reverse for instructions on changing parameters)

General Parameters:

These parameters must be set regardless of application.


<u>Group</u>	<u>Parameter</u>	<u>Value</u>	<u>Description</u>
Setup!	00	EngSp	Function
Setup!	01	RPM	Units
Setup!	03	1	Pulses per Pattern
Setup!	06	TRG	Input Select
TrgInp	20	TS1	TachSensor Setup

Values for Setup! Parameter 02 (Pulses/Patterns per Cam Rev):

<u>Application</u>	<u>Value</u>	<u>Application</u>	<u>Value</u>
Coil per Plug (Single Fire)	1	Single-Ended Coil Pack	1
Coil per Plug (Wasted Spark)	2	Double-Ended Coil Pack	2
Distributor	Number of Cylinders	GM Quad 4	4

Odd Fire Engines:

Setup! Parameters 02 and 03 must be set for proper operation on Odd Fire Engines. Parameter 02 is set to the number of Patterns per Rev, Parameter 03 is set to the number of Pulses per Pattern.

Example: Chrysler V10 Coil Firing pattern: 
 Parameter 02=1 Parameter 03 =2

Multi-Strike Ignition; set Setup! Parameter 08 to ON

Analog Output Parameters:

These parameters affect the scaling of the analog output.

<u>Group</u>	<u>Parameter</u>	<u>Value</u>	<u>Description</u>
AnlOut	30	Norm	Function
AnlOut	31	1000	=1000RPM/Volt
AnlOut	32	0	Offset
AnlOut	33	10.00	Max Output Voltage
AnlOut	34	0.00	Min Output Voltage

Please refer to the SmartTach Operating Manual for Detailed information on SmartTach Parameters

Troubleshooting Tips:

- RPM always too high/low; Check Setup! parameter 02.
- RPM Erratic; Possible problems, Multi-Strike Ignition, Connected to 12V power of a Multi-Coil Pack Engine, Odd-Fire Engine.
- NO RPM; Check TachSensor connections, SmartTach Pulse LED should flash when the engine is running.