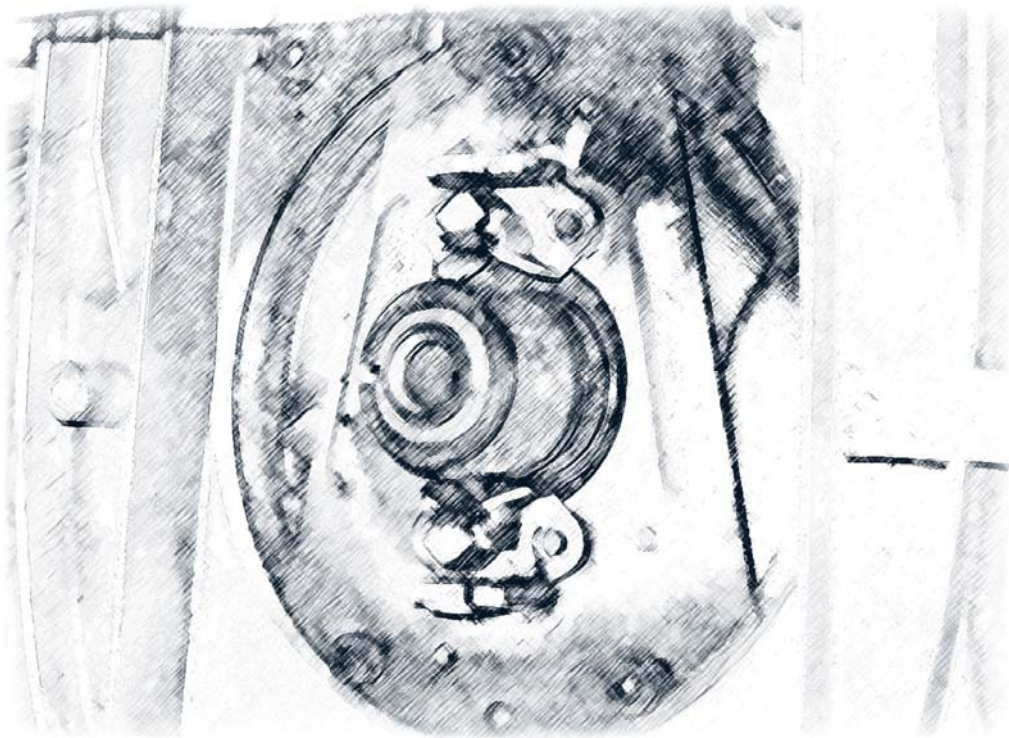


## **Making a Test Box for Oilhead Hall Effect Sensors and Engine Timing**



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DRAFT Edition

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The author(s) have described how they made the parts/ tooling. The construction was based on their experience, knowledge, skills and available materials and tools. Our experience, knowledge and skills maybe and likely are different from any potential users of the information here. Users may not have the material and tools we had available. What was, or is, obvious to us and so not described, may not be apparent to potential users at all. Therefore, they/ we assume no liability for any damage or injury caused by any errors or omissions in this description. Please consult the OEM maintenance manual before doing any work. Use at your own risk.

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## Oilhead Ignition Timing Box

The BMW Oilhead Ignition Timing box PN: 88 88 6 123 650 is approximately US\$ 180.00 and the Oilhead adapter cable PN: 90 88 6 123 652 is approximately US\$ 42.00 at the time of this writing. Here you will find instructions on how to build one with local parts from RadioShack. For less than US\$ 20.00 you can build a test box similar to the OEM unit for Oilheads and K bikes.

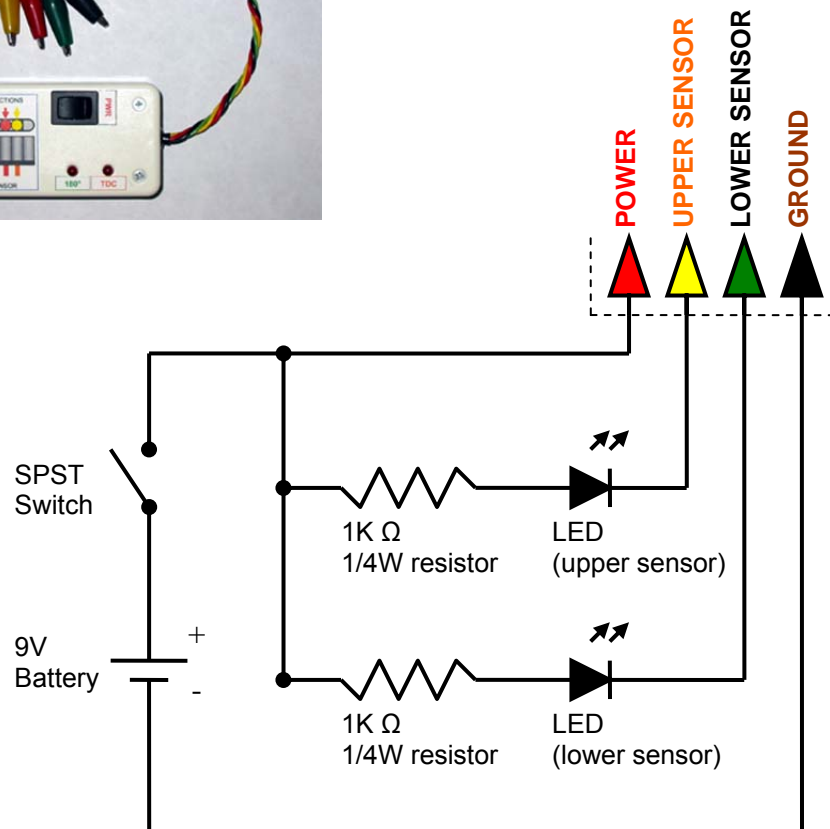
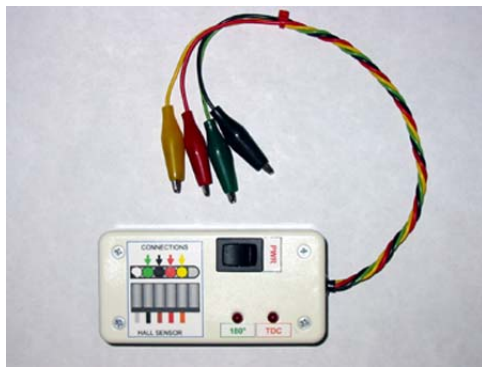
### You will need the following supplies:

RadioShack - <http://www.radioshack.com/>

Catalog #:	270-1802	\$2.69	4" x 2" x 1" Project Enclosure
Catalog #:	270-325	\$1.99	9V Snap Connector
Catalog #:	271-1321	\$0.99	1K ohm 1/4W 5% Resistors pk/5
Catalog #:	276-041	\$1.29	5mm Red LED
Catalog #:	275-406	\$2.49	SPST Sub-mini Slide Switch
Catalog #:	278-1157	\$5.19	Mini Alligator Jumper Cable Set
Catalog #:	278-1627	\$2.39	Heat-Shrink Tubing

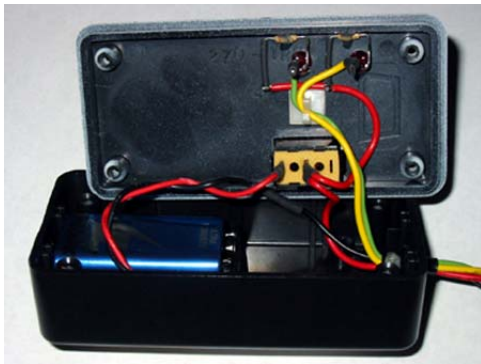


Homemade Ignition Timing Box



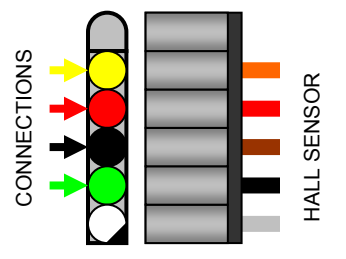
## Use the pictures as a guide:

1. Drill and cut openings for the LED indicators, switch and test leads.
2. Install the switch.
3. Press the LED indicators into the drilled holes.
4. Tack the resistors onto the lid with a spot of epoxy or hot melt glue.
5. Cut off one of the alligator clips near the end of the four test leads.
6. Pull the four test leads through the hole in the enclosure.
7. Leave approximately 4" of wire inside and secure with a nylon tie to act as a strain relief.
8. Solder all of the connections and apply shrink tubing to insulate all of the connections.



## Labels for the project box.

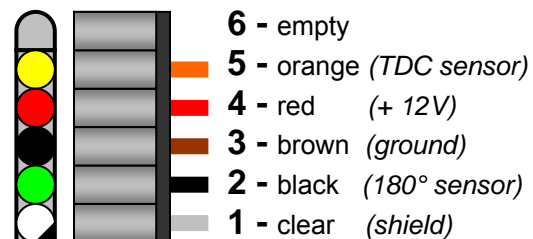
*Print, cut out and glue onto the enclosure.*



**PWR**

**TDC**

**180°**



*Glue onto the rear of the enclosure.*