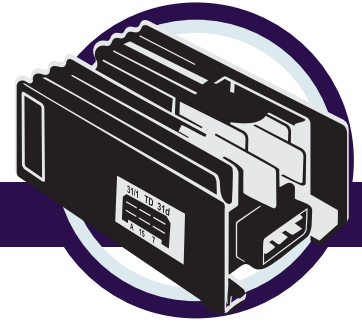




BOSCH Capacitor Discharge Ignition (CDI)

6 PIN CDI BOX - Years : 1976 - 1989



PRINCIPLE OF OPERATION

The CDI box uses the 12 Volts from the car's battery voltage and converts it into 450 Volts which is sent to the terminal #15 in the ignition coil. This voltage is then transferred from the coil to the distributor cap and then to the spark plugs.



IMPORTANT NOTES

The CDI box produces high voltage - 450 Volts. Please be careful while testing and handling the CDI box.

For proper operation the CDI Box must be securely attached to the mounting points of the car's chassis. "Failure to follow this step will create problems with heat soak and the CDI will not ground properly". The CDI box will produce an audible whistle when the ignition is open. This is normal.



6 PIN CDI BOX TESTING PLAN

A digital Voltmeter will be needed for this operation.

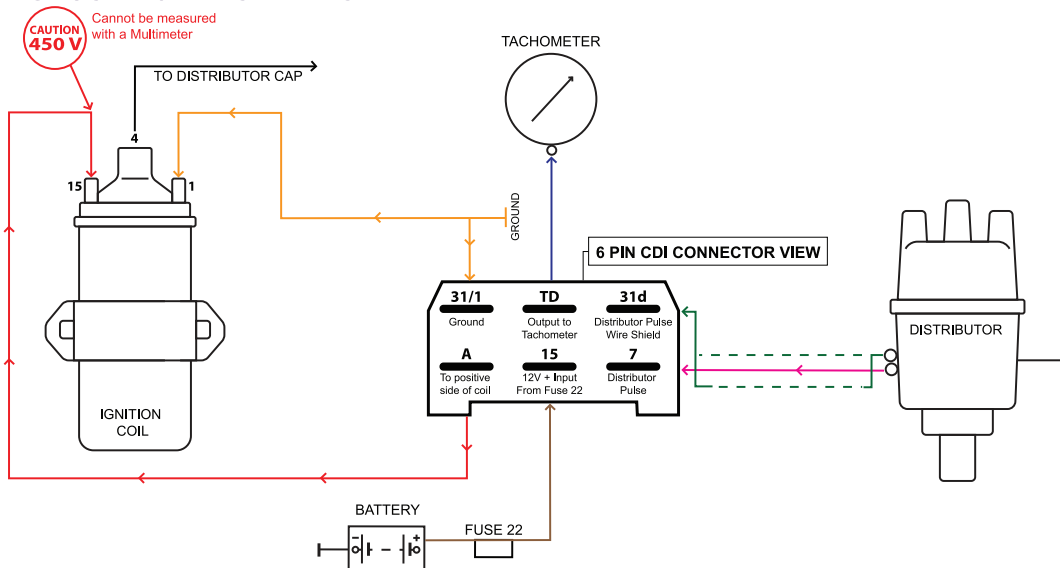
Turn the ignition switch ON. A whistle must be audible from the CDI box. If no whistling sound is heard then remove the connector from the CDI box. Check to see if there is 12 Volts present at terminal 15.

This is Fuse 22 in the main fuse box. This Voltmeter test is only possible when the physical condition of the wire or terminal is in good condition. If the wire or terminal is not in good condition, an adverse effect is possible on the voltage transfer.

To test the signal generated by the distributor set voltmeter to AC. Crank the engine and test for AC voltage on terminal 7 and 31d. A small voltage pulse should appear while the engine is cranked.

If no voltage pulse is present, then the distributor pulse generator or wiring might be faulty.

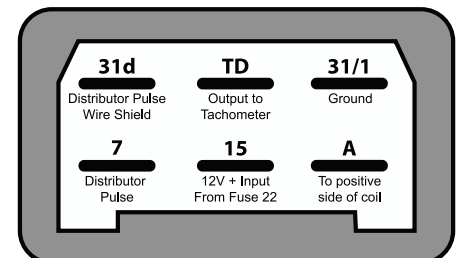
PORSCHE 6 PIN CDI DIAGRAM



CDI MODULE TERMINALS

Terminal #	Description
31/1	Ground
TD	To tachometer
31d	Distributor pulse wire shielding
A	To positive side of ignition coil
15	From fuse 22 in main fuse box
7	Distributor pulse input

CONNECTOR VIEW



DISCLAIMER - It is the sole responsibility of the user to perform these tests. Please inform yourself on how to operate your testing equipment before attempting any diagnostics. Not following these guide - lines will result in damages to your sensors, harness or electronic module on your car.