

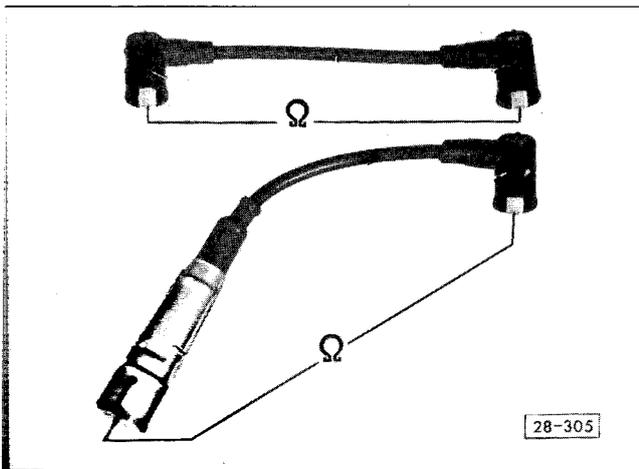
**Table c. Ignition Coil Resistance**

	Engine	Terminals	Resistance
Primary resistance	GX, MZ, HT, RD	1 (-) and 15 (+)	.52 to .76 ohms
	RV, PF (except Digifant I, gray label on coil)	1 (-) and 15 (+)	.6 to .8 ohms
	RV, PF (except Digifant I, green label on coil)	1 (-) and 15 (+)	.52 to .76 ohms
	RV (Digifant I)	1 (-) and 15 (+)	.50 to .70 ohms
	PL and 9A	1 (-) and 15 (+)	.60 to .80 ohms
Secondary resistance	GX, MZ, HT, and RD	1 (-) and 4 (center tower)	2400 to 3500 ohms
	PL and 9A	4 (center tower) and 15 (+)	6500 to 8500 ohms
	RV, PF (except Digifant I, gray label on coil)	4 (center tower) and 15 (+)	6900 to 8500 ohms
	RV, PF (except Digifant I, green label on coil)	4 (center tower) and 15 (+)	2400 to 3500 ohms
	RV (Digifant I)	4 (center tower) and 15 (+)	3000 to 4000 ohms

To check each spark plug wire, disconnect the ends from the spark plug and from the distributor cap and use an ohmmeter to check resistance as shown in Fig. 3-2. Spark plug wires should have 4600 to 7400 ohms resistance. The coil wire should have 1200 to 2800 ohms resistance.

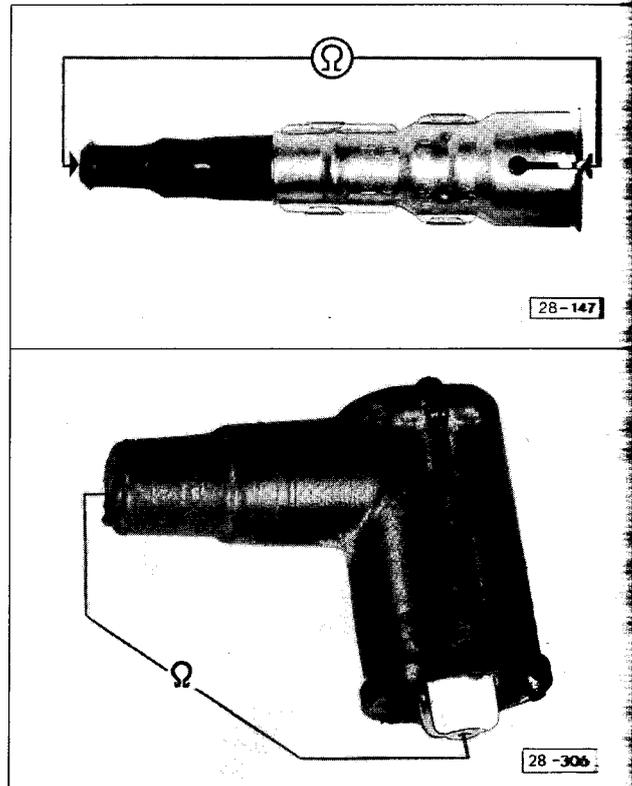
**CAUTION** —

To avoid damaging the distributor cap, do not wiggle the connectors when removing them. If necessary, twist to loosen. Then, pull straight out from the cap.



**Fig. 3-2.** Resistance of spark plug wire (bottom) and coil wire (top) being measured with an ohmmeter (shown schematically).

If the measured resistance is too high, check the wire and the connectors separately, as shown in Fig. 3-3. Also check for corrosion at the connections. Remove the connectors carefully. Twist, then pull. If the metal wire end stays in the connector, the connection is ruined and both connector and wire need be replaced. The resistance of the spark plug connectors should be 4000 to 6000 ohms. The resistance of the suppression connectors which connect to the distributor cap should be 600 to 1400 ohms. The resistance of the wire alone should be nearly zero ohms. Wires or connectors with too much resistance should be replaced. Individual connectors and wires are available from authorized Volkswagen dealers, but may not be stocked by all dealers.



**Fig. 3-3.** Resistance measurement of spark plug connector (top) and distributor cap suppression connector (bottom) shown schematically.